

20000706.qrp v01_n874.qrl.20000706

Date: Thu, 6 Jul 2000 19:03:04 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1874

QRP-L Digest 1874

Topics covered in this issue include:

- 1) [74308] Re: OT:Need webvideo help for sick person
by "George , W5YR" <w5yr@att.net>
- 2) [74309] New Fox Hunting Team
by Brian <brian@iquest.net>
- 3) [74310] Re: Field Day rule adjustment proposal
by "Karl F. Larsen" <k5di@zianet.com>
- 4) [74311] Re: Field Day rule adjustment proposal
by Bill Stietenroth <k5zty@juno.com>
- 5) [74312] re: Baluns and antenna tuners
by Bill Stietenroth <k5zty@juno.com>
- 6) [74313] NPR report on DSP Ant.
by Jim Durkin <jimdurkin@yahoo.com>
- 7) [74314] Appalachian Trail from CT this Sunday
by KD1YV <kd1yv@mindspring.com>
- 8) [74315] Re: Sunday AT Activity
by KD1YV <kd1yv@mindspring.com>
- 9) [74316] NEQRP WQ1RP CW Net - 9:00PM EDT Thursday on 3.561
by "C. J. Ludinsky" <cjl@mitre.org>
- 10) [74317] Crossed Dipoles with One Feedline
by wb2vuo@juno.com
- 11) [74318] Summer Fox Hunt Teams
by Bruce Rattray <rattray@gpfn.sk.ca>
- 12) [74319] Re: Tick minimum configuration
by David Hinerman <dlh1009@ritvax.isc.rit.edu>
- 13) [74320] SPECTACULAR W1FB Tuna Tin 2 Photo!!
by wpc@west.net (ElectronicsUSA.com)
- 14) [74321] Re: Crossed Dipoles with One Feedline
by ARDUJENSKI@aol.com
- 15) [74322] QRP-L Rules FAQ
by "Manager QRP-L" <manager@astro.cc.lehigh.edu>
- 16) [74323] CLUB: WestFLA Meeting This Saturday, 8 July 2000
by "Stephen D. Cohen" <scohen@tampabay.rr.com>
- 17) [74324] Ft Tuthill 2000
by Bob Hightower <nk7m@extremezone.com>
- 18) [74325] Web Page for Summer FOX
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 19) [74326] Re: Tick minimum configuration (Question)

- by David Hinerman <dlh1009@ritvax.isc.rit.edu>
- 20) [74327] re: Baluns and antenna tuners
by "Karl F. Larsen" <k5di@zianet.com>
- 21) [74328] Another kit wattmeter for QRP
by Stuart Rohre <rohre@arlut.utexas.edu>
- 22) [74329] ANT: ZS6BKW ant. is a G5RV for WARC, now also a K5KVH
by Stuart Rohre <rohre@arlut.utexas.edu>
- 23) [74330] Re: Baluns and Antenna Tuners
by aweiss@usd.edu (Ade Weiss W0RSP)
- 24) [74331] ANTENNAS:"IF I only had one antenna---"
by Stuart Rohre <rohre@arlut.utexas.edu>
- 25) [74332] Short antenna efficiency question
by Jim/Julia <w7ls@blarg.net>
- 26) [74333] Re: Field Day rule adjustment proposal
by Bob Patten <n4bp@bc.seflin.org>
- 27) [74334] Lost emails from "Backpacking with QRP" posting
by John AE5X <ae5x@juno.com>
- 28) [74335] Re: NPR report on DSP Ant.
by John R Kirby <n3aaz-qrp@juno.com>
- 29) [74336] Re: Short antenna efficiency question
by Steve Yates <aa5tb@yahoo.com>
- 30) [74337] Switching power supply question
by Nils R Young <nilsbull@juno.com>
- 31) [74338] Fw: Anyone have manuals for Manson MRS400 and/or Manson FRR
'unreadable' see photo
by "Bob Duckworth" <wb4mnf@atl.org>
- 32) [74339] RE: Baluns and antenna tuners
by "Coote, Jay" <JCoote@ci.arcadia.ca.us>
- 33) [74340] Re: NPR report on DSP Ant.
by "Jerry McCollom W0MC" <w0mc@hotmail.com>
- 34) [74341] Looking for 6M CW Transmitter
by "Coote, Jay" <JCoote@ci.arcadia.ca.us>
- 35) [74342] FS: TS850S + AT and SW40+
by Ronald_A_Pfeiffer@res.raytheon.com
- 36) [74343] End fire wire antenna ideas?
by Goran Hosinsky <hosinsky@royac.iac.es>
- 37) [74344] Re: Switching power supply question
by Phil Wheeler <w7ox@earthlink.net>
- 38) [74345] Re: Looking for 6M CW Transmitter
by "Paul R. Valko" <prvalko@oakland.edu>
- 39) [74346] End fire wire antenna ideas? addendum
by Goran Hosinsky <hosinsky@royac.iac.es>
- 40) [74347] New Postings
by Jerry Parker <jparker@fix.net>
- 41) [74348] Re: Looking for 6M CW Transmitter
by "Richard Brummer, K2JQ" <k2jq@bestweb.net>
- 42) [74349] Summer Fox Hunt Teams
by Bruce Rattray <rattray@gpfn.sk.ca>

- 43) [74350] RE: End fire wire antenna ideas?
by "Coote, Jay" <JCoote@ci.arcadia.ca.us>
- 44) [74351] RE: Looking for 6M CW Transmitter
by "Coote, Jay" <JCoote@ci.arcadia.ca.us>
- 45) [74352] Re: Altoids tins
by "n6wg:First n6wg:Last" <n6wg@earthlink.net>
- 46) [74353] Re: Short antenna efficiency question
by "Cla KA0GKC" <ka0gkc@arrl.net>
- 47) [74354] Wanted: TS-140 manual to copy for prospective ham
by Peter_Simpson@ne.3com.com
- 48) [74355] Re: End fire wire antenna ideas?
by "n6wg:First n6wg:Last" <n6wg@earthlink.net>
- 49) [74356] Rohn 25G?
by "J. Ervin Bates" <w8erv@email.msn.com>
- 50) [74357] NH AT ALERT
by "Steven Weber" <kd1jv@moose.ncia.net>
- 51) [74358] Wire Antenna Program at CMARC
by "J. Ervin Bates" <w8erv@email.msn.com>
- 52) [74359] WTB:Crystal for Heath DX40
by normany@mindspring.com
- 53) [74360] Re: QRP-L Rules FAQ
by "Paul Harden, NA5N" <na5n@rt66.com>
- 54) [74361] Ft. Tuthill :-(
by Monte Stark <ku7y@dri.edu>
- 55) [74362] Results of the JULY SPARTAN SPRINT
by Russ Carpenter <russ@natworld.com>
- 56) [74363] FOX tonight (reminder)
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 57) [74364] I've forgotten
by "Mark Hogan" <mhogan@email.msn.com>
- 58) [74365] Help with parts ID?
by "David Maliniak" <dmaliniak@vertical.net>
- 59) [74366] Re: Help with parts ID?
by "Mike Yetsko" <myetsko@insydesw.com>
- 60) [74367] RE: Help with parts ID?
by Radman <radman@best.com>
- 61) [74368] Got my answer...
by "David Maliniak" <dmaliniak@vertical.net>
- 62) [74369] Infrequent Reminder: QRP-L Help Page
by "Paul R. Valko" <prvalko@oakland.edu>
- 63) [74370] Re: Short antenna efficiency question
by Jim/Julia <w7ls@blarg.net>
- 64) [74371] RE: End fire wire antenna ideas?
by Gary Lee Phillips KA9NZI <ka9nzi@arrl.net>
- 65) [74372] ARK-4 XCVR +
by Qrpop@aol.com
- 66) [74373] RE: Short antenna efficiency question
by carlos.caro@lmco.com

- 67) [74374] Now Showing: The ARS Sojourner
by Richard Fisher <ki6sn@yahoo.com>
- 68) [74375] SMiTe Fox 7/9/00
by "Richard E. Robinson" <rerobins@email.uncc.edu>
- 69) [74376] RELAYS??
by ARDUJENSKI@aol.com
- 70) [74377] Baluns, the last word
by "Karl F. Larsen" <k5di@zianet.com>
- 71) [74378] Re: RELAYS??
by "Mike Yetsko" <myetsko@insydesw.com>
- 72) [74379] Re: Baluns, the last word
by "Paul Christensen" <paulc@mediaone.net>
- 73) [74380] RE: RELAYS??
by "Coote, Jay" <JCoote@ci.arcadia.ca.us>
- 74) [74381] FOX: Counting Down
by "Marshall Emm" <mgemm@mtechnologies.com>
- 75) [74382] AB0GO backpack portable on 20m this wknd
by "Dave Ek" <ekdave@earthlink.net>
- 76) [74383] Remote antenna relays ?
by James Skalski <jskalski@localnet.com>
- 77) [74384] Re: RELAYS??
by Monte Stark <ku7y@dri.edu>
- 78) [74385] Looking for radar gun kit
by Michael Neverdosky <mneverdosky@earthlink.net>
- 79) [74386] Re: RELAYS??
by Monte Stark <ku7y@dri.edu>
- 80) [74387] Re: Field Day rule adjustment proposal
by Monte Stark <ku7y@dri.edu>
- 81) [74388] Re: Summer Fox Hunt Teams
by Bruce Rattray <rattray@gpfn.sk.ca>
- 82) [74389] How low can you go?
by "K7FD" <cqdx@teleport.com>
- 83) [74390] TRADE: Jones Paddle for DSW20?
by "Steve/n0tu" <n0tu@webaccess.net>

Date: Wed, 05 Jul 2000 18:17:07 -0500
From: "George , W5YR" <w5yr@att.net>
To: bowerm@ix.netcom.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74308] Re: OT:Need webvideo help for sick person
Message-ID: <3963C1F3.93EA79B@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I have used NetMeeting with video camera over a 26,400 bps connection

with fair results to visit with my son in the Foreign Service in Sarajevo, Bosnia.. Motion is not likely except as a series of blurred images. The picture, when still, is remarkably good, though nowhere near TV quality.

I think that the NetMeeting approach will work to give her a sense of presence and the audio will be acceptable. But, the practical difficulty of establishing and maintaining a NetMeeting connection for such an extended period is not trivial. Someone would have to be in attendance at each end to do the computer hand-holding to keep things going. Changing servers in mid-stream is not unheard of in order to keep things going.

Sorry to be a little negative on what would be a great service for the lady. I hope someone else can come up with something better than NM. Good luck - I see that you are trying to earn another star for your crown.

72/73, George

Fairview, TX 30 mi NE Dallas in Collin county

Amateur Radio W5YR, in the 54th year and it just keeps getting better!

R/C since 1964 - AMA 98452 RVing since 1972 Kachina #91900556

Michael Bower wrote:

>

> Hi, folks. This is way off topic but certainly probably well covered
> here. I need some help.

Date: Wed, 05 Jul 2000 19:05:49 +0100

From: Brian <brian@iquest.net>

To: QRP-L <qrp-l@lehigh.edu>

Subject: [74309] New Fox Hunting Team

Message-ID: <396378FD.CA927CF2@iquest.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Introducing.....THE FLYING PIGS!!

KB9BVN - Brian in Indy

N8IE - Dan in Kettering Ohio

W8DIZ - Diz in Cincy Ohio

WB6JBM - Rick in West Chester Ohio

AC7CF - Andrew in Salt Lake City

Ta DAAAAAAAH!

--

```
=====
KB9BVN NORCAL 2792 FISTS 5695 QRP-L 1540 QRP-ARCI 10223
  39.558 N   86.095 W   Johnson Co., Indiana
  GRID: EM69WN - Ten Tec Scout - Attic Dipole - 5w
  Proud to be a member of the American Radio Relay League
  FISTS Century Club #764/#24 QRP - Flying PIG QRP #-57
=====
```

Date: Wed, 5 Jul 2000 19:11:26 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Monte Stark <ku7y@dri.edu>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74310] Re: Field Day rule adjustment proposal
Message-ID: <Pine.LNX.4.10.10007051907160.2014-1000000@cannac.ampr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The emergency part is staying on the air working stations across the country. With 150 watt rigs comes noisy generators that quit when you least expect it. I love to have 4 stations working at night and the night is silent except the high speed cw from somewhere.

I've done many full power field days and I can say that a QRP field day is far more enjoyable. We have had 2 in a row here.

On Wed, 5 Jul 2000, Monte Stark wrote:

```
> Hmmmmmm,
>
> Seems to me that the reasoning behind FD is to simulate
> an emergency and provide the communications.
>
> When you are talking about doing emergency communications
> you are really talking about passing traffic at as close
> to 100% accuracy rates as possible, and as fast as possible,
> so.....
>
> Maybe the "extra" points should be given to the stations
> that can put out the best sig's, which would mean not
> only good antennas but full power also. And all the digital
> modes.
```

>
> While I love QRP I really don't think FD is set up to be
> a QRP event.
>
> Think of it this way:
>
> Running QRP in the field really doesn't present much of
> a challenge. A small battery, little rig and some wire
> and you are off and running.
>
> But installing a big antenna, providing power for full
> power rigs and computers is a BIG challenge! :-) Just
> getting several rigs on the air at the same time without
> interfering with each other is no simple trick, in most
> cases!
>
> Just thought you'd all enjoy another view!
>
> Back in my hole.....and a flame cover on the door! :-)
>
> 73, Ron
>
>KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
>ku7y@qsl.net....SOC #2.....Nevada....NRA LIFE....
>SOWP 5545M.....WHINERS #1.....ZOMBIE #18.....
>Visit my Home Page.....<http://www.qsl.net/ku7y/>....
>
>
>
>

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Wed, 5 Jul 2000 20:12:57 -0500
From: Bill Stietenroth <k5zty@juno.com>
To: ku7y@dri.edu
Cc: qrp-1@Lehigh.EDU
Subject: [74311] Re: Field Day rule adjustment proposal
Message-ID: <20000705.201652.-3860645.3.k5zty@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Hey Ron,

Have you gone bonkers?? What do you mean QRP is no challenge for field day? To do any scoring at all the QRPers have to put up the best antennas of all and work the hardest for each contact. Maybe you need to try a QRP field day and see if it presents you a challenge. You know not of what you speak.

Bill, K5ZTY
Houston, TX

Date: Wed, 5 Jul 2000 19:56:47 -0500
From: Bill Stietenroth <k5zty@juno.com>
To: qrp-1@Lehigh.EDU
Subject: [74312] re: Baluns and antenna tuners
Message-ID: <20000705.201652.-3860645.2.k5zty@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

The most trouble free and wide range balun is the W2DU choke balun. It is 1:1 and doesn't care what the reactance is. It is made out of a length of 52 ohm coax with close fitting ferrite beads strung over it. I use one that is just over a foot long with a BNC connector on one end and ring tongue connectors on the other. I plug it into the antenna connector on my K2 and hook the ring tongues to the ladder line and let the auto tuner do the rest. It will also work with a manual tuner the same way. The 4:1 baluns in most CLC tuners are bad if they have been used any where close to their rated power output.(be wary if you buy a used one) Those baluns only work in a very narrow range of reactances. When an antenna presents a reactance to them that is outside of that range they cease to be a balun and core saturation starts and heat builds up and cooks the core. Permanent damage. There is no problem with core saturation in the W2DU choke balun. No core. I never understood the reason for the widely accepted use of the 4:1 transformer wound type balun because in the case of a long flat top dipole type antenna fed with ladder line, you don't have a clue what the feed point impedance is going to be on whatever frequency you are trying to tune. It may present a 1.5:1 mismatch if you are close to resonance or it may present a 40:1 if you are not. In this case a 1:1 balun is much more forgiving than a 4:1 as the larger the balun ratio the narrower the range of mismatch tolerated.

Bill, K5ZTY
Houston, TX
k5zty@juno.com

Date: Wed, 5 Jul 2000 18:21:10 -0700 (PDT)
From: Jim Durkin <jimdurkin@yahoo.com>
To: qrp-1@Lehigh.EDU
Subject: [74313] NPR report on DSP Ant.
Message-ID: <20000706012110.25991.qmail@web310.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Did anyone hear the NPR report on DSP antennas? I think it was on 7/3/00 in Morning Edition. Not sure I got it all but it sounded like a small antenna (the size of a pc board) could be used in place of a large (dipole sized) antenna. The key was the use of digital signal processing to sort, amplify, etc.

Seemed like it might be too good to be true. Perhaps only good for receiving??

Any comments appreciated.

73
Jim kt4a

Do You Yahoo!?
Send instant messages & get email alerts with Yahoo! Messenger.
<http://im.yahoo.com/>

Date: Wed, 05 Jul 2000 21:23:27 -0400
From: KD1YV <kd1yv@mindspring.com>
To: atrail-1@lehigh.edu, qrp-1@lehigh.edu
Subject: [74314] Appalachian Trail from CT this Sunday
Message-ID: <3963DF8F.DB2F6ABE@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The Candlewood Amateur Radio Association will activate the Appalachian Trail from Connecticut this weekend (WX permitting). We hope to be on the air with two QRP stations, one running CW and the other SSB or CW (operator's choice). We will be on 40m and 20m.

Expected times of operation are about 1300-2100 UTC (0900-1700 EDT) 09 July 2000. We will be on or near the QRP calling frequencies, +/- QRM.

For additional information about the Appalachian Trail awards, see the Eastern Pennsylvania QRP Club web page at <http://www.n3epa.org/> , then follow the link to the Appalachian Trail Award. Please remember that contest contacts are not allowed for the AT certificates, so all of those World RadioSport stations should not bother contacting us :-)

Hope to see you on the AT from CT.

--

72/73 de Jim, KD1YV
Vi Minore Plus Gaudium
Candlewood Amateur Radio Association -
<http://www.danbury.org/cara/>

Date: Wed, 05 Jul 2000 21:30:55 -0400
From: KD1YV <kd1yv@mindspring.com>
To: wb3aal@talon.net
Cc: Appalachian Trail Award <atrail-1@Lehigh.EDU>, qrp-1@Lehigh.EDU
Subject: [74315] Re: Sunday AT Activity
Message-ID: <3963E14F.C49381F@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ron and all,

Sorry, I forgot to mention that we will be operating under out club callsign, W1QI.

--

72/73 de Jim, KD1YV

Ron Polityka wrote:

> Hello,
>
> Depending how the weather is on the Appalachian Trail,
> KD1YV will activate CT and WB3AAL / WA3WSJ will
> activate PA.

>
> Anyone want to put another state on the air?
>
> Jim will post more information on Friday about the CT trip.
> Ron & Ed will post information soon about the PA trip.
>
> 72 & 73
> Good DXing
>
> Ron Polityka
> de WB3AAL
> wb3aal@talon.net
>
> vvv Eastern Pennsylvania QRP Web Page vvv
> <http://www.n3epa.org>
> Eastern Pennsylvania QRP Club Call
> N3EPA E-mail address: n3epa@talon.net
>
> EPA QRP #1 NJ QRP #179
> KL7 QRP # 309 G-QRP # 3031
> ARCI QRP # 5318 10 - X #13173
> NorCal Zombie #625
> ARS # 380 HI QRP #153
> VA QRP Society #45 MI QRP #1703
> K2 sn1392 Bumblebee #6

Date: Wed, 05 Jul 2000 21:44:17 -0400
From: "C. J. Ludinsky" <cjl@mitre.org>
To: neqrp@jonal.net, qrp-l@lehigh.edu, K1LGQ@dennis.mv.com
Subject: [74316] NEQRP WQ1RP CW Net - 9:00PM EDT Thursday on 3.561
Message-ID: <3963E470.70C2347E@mitre.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The New England QRP Club CW net meets again Thursday night, 6 July, at 9:00 PM EDT (0100Z, 7 July) -- this time on or around 3.561 MHz. The net operator for this session will be John, WB1HBE, working the evening shift as WQ1RP.

We had an excellent turnout last week on 40M, despite more than the usual amount of QRN, QRM, and QSB, with a total of ten folks checking

into the net. Joel, K1QM, again did a great job as net op. Checkins included:

K1QM	Joel	Concord, MA
W3ZVT	Frank?	Uniontown, PA
K1CL	Chuck	Chelmsford, MA
VE2TH	Mike	Quebec City
WB1HBE	John	Chelmsford, MA
N08C	Mike	Quincy, OH
K9UT	Jerry	Richmond, IN
N1ZSW	Ron	Worcester, MA
AA2NL	Rich	Mendham, NJ
N4FNG	Al	FL

Thanks to everyone for your support. (Please let us know if there are any additions or corrections to this list.)

As you can see, we had quite a few folks join us from outside the New England area, so please give our 80M session a try on Thursday night. Until then,

72 DE K1CL,
Chuck.

Date: Wed, 5 Jul 2000 22:18:44 -0400
From: wb2vuo@juno.com
To: qrp-l@lehigh.edu
Subject: [74317] Crossed Dipoles with One Feedline
Message-ID: <20000705.221846.-80965.0.wb2vuo@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

I received a number of requests about our Field Day antenna for 80/40/15 & 10 Meters, which is also the style that I use for the primary antenna at the home station. Here's the info for the List...Keith, WB2VUO:

Crossed-Dipoles/Inverted Vees

During Field Day at K2BRK this year I constructed an 80 40 Meter inverted vee for one of the stations. This was a pair of inverted vees, with a common feedpoint and coaxial feedline.

When I tuned the antenna up, I used a technique that I have used for at least 30 years, and then realized that the particular "order" in which I tweaked the antennas onto the desired frequencies was somewhat unfamiliar to the members of the Klub. I picked up the technique from either Les, W2OQY or Bill, W2CVI back in the mid-60's.

When running multiple coax-fed dipoles or inverted vees from a common feedline, there will be some interaction. Successful "tweaking" will take the interaction into account. The secret is to tune from the highest band to the lowest, so with an 80 & 40 Meter antenna, the 40M is tuned first.

First off, one should calculate the wire length for the "basic" dipoles and/or inverted vees and add a couple of per cent to this length. It is far easier to trim some wire off rather than adding some on the antennas.

The formula used is:

$$L(\text{ft}) = 468 / F(\text{MHz})$$

To this length, add enough wire to make your connections, and then add a couple of per cent. Calculate both antennas, cut them accordingly. Using the center insulator of choice connect one leg of each antenna to the center conductor and the other legs to the braid. The insulator can be a commercial unit, a scrap of polycarbonate, the bottom of a plastic milk bottle or whatever is on hand.

Raise the antenna to your chosen location. For minimum interaction between the antennas, put them up perpendicular to each other. You can, if the wire gauge is hefty enough, use the antennas for guying the mast. Install the antennas in such a position that you can either reach the ends, or drop them into reach easily.

Next, with an antenna analyzer or the TX on QRPp and an SWR bridge, find the point where the SWR is minimum on the higher frequency band. Compare this frequency to the one you calculated the length for. If you are at or near your target frequency, LEAVE IT ALONE! If everything is typical, the resonant point will be below your target and you will need to trim the wires. For this, take the formula above and recalculate using your resonant point. This will give you an "Electrical" length, one taking actual ground and surrounding objects into account.

Compare the new length with your original calculation. Take 1/2 of

the difference off EACH end and sweep for resonance again. You should be very close if not right on.

Repeat the steps for the lower band (with the appropriate calculations) and then check the upper band for any changes. There should be none.

In the actual installation at K2BRK this year, the 40M inverted vee swept out around 6.85 MHz. The "electrical" length calculated to be 68.33 feet. What we were aiming for was 7.05 MHz, or a length of 66.33 feet. We took 1 foot off each end, and the new sweep showed minimum SWR at 7.08 MHz, close enough. For 75M the antenna swept out at 3.51 Mhz, or 133.33 feet. For operation at 3.82 MHz we had calculated a length of 122.5 feet, so we trimmed 5.4 feet off each end, and the next sweep put us at 3.80 MHz, again close enough.

With these center frequencies, we had 80M & 40M on the fundamentals and 15M and 10M as 3/2 and 7/2-waves. The autotuner matched them on those bands just fine. The feedpoint was up 20 feet, so this made for a great NVIS antenna for 80 & 40.

Thanks to John, KG2NI and his MFJ analyzer. It made the antenna trimming a real snap!

You can use the same method for other bands. I have run 40 & 20M, 20 & 15M and 30 & 10M in combination at various times and in various locations. Ed Noll, W3FQJ (I think) published theses same ideas in his book "73 Dipole and Long Wire Antennas", and even had 3 inverted vees off a common feed for his "80 - 6 Meter SSB Special". I have the book somewhere, and I saw that it's still available thru MFJ.

Go for it! Multiple dipoles and/or Inverted Veas work, and quite well.

72/73, Keith, WB2VUO, 100% QRP from the Depths of the Great Bergen Swamp
President & FD'00 Chairman, Brockport Amateur Radio Klub
My night light runs more power than my Rig!!!
Replies - <mailto:wb2vuo@arrl.net>

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<http://dl.www.juno.com/get/tagj>.

Date: Wed, 5 Jul 2000 20:23:18 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-l@LeHigh.EDU>
Subject: [74318] Summer Fox Hunt Teams
Message-ID: <Pine.LNX.3.95.1000705201914.1445A-1000000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

With the hunt beginning July 6th., here are the Teams so far.....

- (1) - SWAMP RATS:
 - K0EVZ - Doc
 - NV4V - Pete
 - AF4PS - Mac
 - AJ4Y - Paul
 - N1TP - Tom
- (2) - QRP CHEESEHEADS:
 - N9AW - Jerry
 - NK9G - Rick
 - AE9K - Brian
 - WA9TZE- Jim
 - tba
- (3) - RAIDERS OF THE LOST RF:
 - NA6E - Mary
 - VE3FAL - Fred
 - VA6RF - Earl
 - VE5RC - Bruce
 - tba
- (4) - THE FLYING PIGS:
 - KB9BVN - Brian
 - N8IE - Dan
 - W8DIZ - Diz
 - WB6JBM - Rick

....any more please?

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - SOC #11 & #12 - Whiner#10 -
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

Date: Wed, 05 Jul 2000 22:20:03 -0400
From: David Hinerman <dlh1009@ritvax.isc.rit.edu>
To: qrp-1@lehigh.edu
Subject: [74319] Re: Tick minimum configuration
Message-ID: <3.0.6.32.20000705222003.00794100@vmsspop.rit.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 10:14 AM 7/5/00 -0500, you wrote:

>I don't need the schematic in a hurry. The bmp or gif would be nice as I
>don't work with circad (yet..).

>I think I've got the info from the Tick site but my area
>of expertise has always been Artillery computer systems development and >this
electronics and radio stuff is new to me.

Steve,

I mean no disrespect, but some days I get the feeling the version of Microsoft Outlook we use at work could cause more damage than anything your hardware is controlling. (Grin)

I'll attach a GIF of the keyer schematic to you on a separate e-mail, but I've placed the CIRCAD schematic (as well as a link to the Holophase Web site where you can download CIRCAD) and an abbreviated schematic at:

<http://www.qsl.net/wd8civ/>

Good luck with your keyer project!

Dave

Date: Wed, 5 Jul 2000 19:49:55 -0500
From: wpc@west.net (ElectronicsUSA.com)
To: qrp-1@Lehigh.EDU
Subject: [74320] SPECTACULAR W1FB Tuna Tin 2 Photo!!
Message-ID: <v0153050bb58983e08a61@[205.254.241.51]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi QRP-L!

Two additions to the Tuna Tin Two Photo Gallery:

1) A SPECTACULAR close up photo of W1FB's original TT2. A while back, Ed Hare sent me a HUGE 4.4mb bitmap image of the original QST cover photo. With the ARRL and Ed's permission, I have created a cropped image of the Original W1FB TT2, and the result is stunning!!! YOU WILL NOT BELIEVE THE DETAIL!!

Go to: <http://TunaTin2.homepage.com>

or <http://ElectronicsUSA.com/tunatin2.html>

Take a look at the original QST cover photo posted on the webpage, then click on the cat's face to see this great cropped photo of the W1FB TT2.

2) Another addition to the TT2 Gallery: The TT2 of N7QAX

Thanks, and I do hope you will check out the latest additions to the TT2 Gallery. All TT2 photos are WELCOME!! (Now 25 photos and growing!)

72, -Jack WA6KY0

Jack Roblin

ElectronicsUSA.com

<http://ElectronicsUSA.com>

"Home of Whiterook Pocket Mini-Keys & Mini-Keyers.....and much more!"

Date: Wed, 5 Jul 2000 22:54:39 EDT
From: ARDUJENSKI@aol.com
To: wb2vuo@juno.com, qrp-l@lehigh.edu
Subject: [74321] Re: Crossed Dipoles with One Feedline
Message-ID: <36.8342bba.26954eef@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Keith,

I was anxiously awaiting this info from you based upon a post earlier this week. I would like to suggest that this get archived so it can be easily retrieved. My suggestion is at <http://www.qsl.net/~wd8rif/radio.htm>. He has an excellent collection of articles from over the years and this would fit nicely in with the rest.

QUESTION: Did you make one cut or several closer approximations and how did you make your choice(s)? I saw a TRIMMING CHART at RADIOWORKS site and was wondering if you might comment on its suggestion compared with your experience. See <http://www.radioworks.com/ntrimchart.html> for the chart.

Thanks again for the info---alan

Date: Wed, 5 Jul 2000 22:05:55 -0500
From: "Manager QRP-L" <manager@astro.cc.lehigh.edu>
To: "QRP-l" <qrp-l@lehigh.edu>
Subject: [74322] QRP-L Rules FAQ
Message-ID: <018901bfe6f7\$34c99540\$0200000a@mcg.net>

The QRP-L mailing list is open for discussion of subjects relating to low-power amateur radio station operation and construction. Additionally, QRP-L is a forum to enhance, organize and push forward the hobby of QRP Amateur Radio.

Example topics: (but not limited to)

Portable operation

Equipment design and construction

Solar and battery power

QRPP

QRP contesting

Kit building

Scratch building (homebrewing)

QRP SSB and Digital modes

QRP Meeting and Forum announcements

There are also topics that really do not belong on this list as they are either covered in other forums or are inflammatory in nature.

Example topics: (but not limited to)

Code/nocode

FCC policy matters

Derogatory subjects

Excessive for-sale/want postings

Commercial product announcements in excess of one per company per month

Postings containing hurtful, spiteful, or foul language

It is requested, in the interests of saving drive space and reducing the size of and signal to noise ratio of the archives, that replies to messages be pertinent to the discussion and quoting of the previous message be edited to a minimum or not quoted at all. Replies with full quotations and a short one liner such as "I agree!" are simply not to be made. They do not add to the discussion and QRP-L is not a forum for taking a consensus or vote.

QRP-L is a family forum and all postings must take that into consideration. All participants are expected to act in an adult and polite manner and follow the above guidelines at all times. Failure to do so will result in immediate suspension from the list. As a condition to your subscription to QRP-L you agree to abide by the listowner manager decisions without contest. If this is not satisfactory, do not subscribe.

And finally, just like all good old west towns, we have only ONE sheriff. The designated listowner manager will do ALL the reminding and enforcing of the rules. < See that thing there? It's a PERIOD. In short, postings from self appointed list police will get you unsubscribed faster then Wyatt Earp's draw!

Date: Wed, 5 Jul 2000 23:16:49 -0400

From: "Stephen D. Cohen" <scohen@tampabay.rr.com>

To: "QRP-L Mailing List" <qrp-l@lehigh.edu>, "Steve Cohen" <westfla@qsl.net>,

"Mike Maiorana" <mikemo@attglobal.net>, "George Goodroe" <kf4cpj@arrl.net>,

"Joe Gigliotti" <w4emi@arrl.net>, "Mac Steinmeyer" <macstein@aol.com>, "Bill

Penhallegon" <w4stx@arrl.net>, "Cecil Wagner" <beachaxss@aol.com>,

Subject: [74323] CLUB: WestFLA Meeting This Saturday, 8 July 2000

Message-ID: <NDBBJALMDCJHFFPJMMFKCEDCEAA.scohen@tampabay.rr.com>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Ladies and Gentlemen,

The next meeting of the Western Florida QRP Club will be held this Saturday, the 8th of July, 2000 at 10AM. The meeting will run until folks have had enough. This meeting will feature the continuation of a building project outlined below.

The WestFLA meetings run using the NorCal model, to wit, no new business, no old business, no business at all! It will simply be a meeting of like minded people to discuss QRP, homebrewing, kit building and the sort. As such, it is vitally important that people have things to discuss. Please bring a current project, special rig, piece of test equipment or some such to demonstrate and describe to your fellow ham.

As usual, coffee and donuts will be provided. A selection of door prizes will also be awarded, based on what members bring to give away. If you've got a treasure sitting in the junk box that you do not expect to use any time soon, why not bring it along for a door prize?

As usual, Mike Maiorana (KU4QO) and I will bring a selection of test equipment to the meetings to help folks with alignment and troubleshooting of their projects. I will have an oscilloscope, a counter and a signal generator with me.

Mac Steinmeyer, AF4PS will continue to lead us in a Manhattan style construction project this month. This project will build the equivalent of the NorCal SMK-1 only using through-lead components with the Manhattan construction style (pads glued to flat PCB, solder to the pads). Now, before the purists start complaining about turning a nice tiny SMT rig into a behemoth, we offer the following: 1) The components *are* mounted on the surface, and 2) This is a much simpler rig to introduce the beginner to Manhattan construction than the 2N2/40.

At this time, I am not certain how many kits of parts Mac will have available. I do know that if you have reserved a kit with Mac and want a hand getting started, you should bring appropriate construction tools (iron, solder, superglue, etc.). For those of you who have not reserved a kit with Mac, perhaps he will have some extras, or be coaxed into doing another buy to organize more kits. I seem to recall Mac saying that the kit of parts will be in the \$25 to \$35 range, with very little left to scrounge for the end builder/user.

In addition, I will be starting work on a Small Wonders Laboratories DSW-20. It is also likely that one of the Small Wonders Laboratories PSK radios will make an appearance as well. If you have any interest in these projects, be sure to stop by and take a look.

"So, Steve", you say, "Enough of the shuck and jive... Where

is the place?". An excellent question. The TARC clubhouse is located in Tampa Florida. The directions to the clubhouse are:

Take I-275 North or South to the Sligh Exit. Once on Sligh, go east to 22nd Street. Turn left on 22nd Street and go the the very end. Once you are at the end of the street, the clubhouse is on your right next to the ball field. It will be obvious from the tower and antennas.

From north of Tampa, take route 75 south to 275 then follow the above directions.

From south of Tampa, take route 75 north until you get to route 4 west which runs into route 275. You have a choice at 275, and you want to go north on 275 from route 4 and follow the above directions.

From the east, take route 4 west until you run into 275 then take 275 north from there and follow the above directions.

There will be a talk-in on the 147.105(+) N4TP repeater. Just give us a holler if you get lost.

These directions are also available on the TARC web page at <http://www.hamclub.org/tarcweb/way.htm> which is also linked from the WestFLA web page at <http://www.qsl.net/westfla>.

Questions should be forwarded to westfla@qsl.net.

73,

Steve, N30IE

Date: Wed, 05 Jul 2000 20:17:53 -0700
From: Bob Hightower <nk7m@extremezone.com>
To: qrp-1@lehigh.edu
Subject: [74324] Ft Tuthill 2000
Message-ID: <200007060314.UAA20889@enterprise.extremezone.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

According to Jerry Parker WA6OWR, the 'official' keeper of the

registrations for Tuthill, there are now 63 attendees pre-registered. If you are planning on being there, and want a great looking name tag, please go to <http://www.extremezone.com/~nk7m/qrp2000.htm> and pre-register.

Gonna be lots of fun this year!

Bob Hightower NK7M
Chandler, AZ
SOC #20
K2 #157/255

<http://www.extremezone.com/~nk7m>

Date: Wed, 5 Jul 2000 23:40:04 -0400
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: QRP-L Discussion Group <QRP-L@Lehigh.edu>
Cc: "W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [74325] Web Page for Summer FOX
Message-ID: <200007052342_MC2-AB16-A45A@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain;
 charset=us-ascii
Content-Disposition: inline

Gang:

Several have been writing, asking for info about tomorrow evening's Summer FOX inaugural hunt. Yours truly will be Da FOX, and the starting time is 0100Z, which equates to 2000 CDT tomorrow evening, USA time.

As a reminder, the complete rules, prizes and sked are to be found on our web page, which is <http://www.cqc.org/sfox>.

I checked all the frequencies from 14050-14070, and tonight there was almost no activity at 2100CDT. Hmmm.... Of course, lots of guys were lower in the band, working DX.

72/73,
--W.D. (Doc) Lindsey
DSBF
PO Box 6028

Bismarck, ND 58506
(Shipping = DSBF, 2020 Lovett Ave, Bismarck, ND, 58504)
E-Mail = K0EVZ@arrl.net

Date: Wed, 05 Jul 2000 23:53:22 -0400
From: David Hinerman <dlh1009@ritvax.isc.rit.edu>
To: qrp-1@lehigh.edu
Subject: [74326] Re: Tick minimum configuration (Question)
Message-ID: <3.0.6.32.20000705235322.007971b0@vmsspop.rit.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 10:54 PM 7/5/00 -0400, you wrote:
>Thanks for sharing your Tick Keyer schematic.
>I don't know if it's my "senior citizen" eyes, or
>not, but I can't be sure of the value of R-2. Looks
>as if it could be either 4.3 k or 1.3 k. Am I even
>close?
>
>Your comment would be appreciated.

Don,

Sorry about that. That's 4.3k, although I think 1.3k will work as well. (Anyone know the max. base current for the 2N2222?)

CIRCAD's choice of font isn't exactly my preference, but I haven't yet figured out how to change it.

Dave

Date: Wed, 5 Jul 2000 22:24:02 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Bill Stietenroth <k5zty@juno.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [74327] re: Baluns and antenna tuners
Message-ID: <Pine.LNX.4.10.10007052214550.2118-1000000@cannac.ampr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The problem is Bill, I use those 4:1 baluns on a core everywhere and when

I'm running QRO at 100 watts for a long period of time, say 4 hours, I have placed my fingers around the balun in an MFJ tuner and it's not even warm!

Your RG-213 with ferrite rings is a throwback to 1960. When decent cores were not available. No-one thinks that is a balun and it isn't. Do this: replace the 400 ohm ribbon with 2 220 ohm resistors in series. Using real low power so you don't pop the resistors bring the resistors into a good match with zero swr to your radio with your antenna tuner. Now hook a wire from the center of those resistors to the shield of your coax. The swr should not change a single bit. But with your non-balun it change a large amount. I do the same thing with the MFJ 4:1 balun and they are perfect.

On Wed, 5 Jul 2000, Bill Stietenroth wrote:

> The most trouble free and wide range balun is the W2DU choke balun. It
> is 1:1 and doesn't care what the reactance is. It is made out of a
> length of 52 ohm coax with close fitting ferrite beads strung over it. I
> use one that is just over a foot long with a BNC connector on one end and
> ring tongue connectors on the other. I plug it into the antenna
> connector on my K2 and hook the ring tongues to the ladder line and let
> the auto tuner do the rest. It will also work with a manual tuner the
> same way. The 4:1 baluns in most CLC tuners are bad if they have been
> used any where close to their rated power output.(be wary if you buy a
> used one) Those baluns only work in a very narrow range of reactances.
> When an antenna presents a reactance to them that is outside of that
> range they cease to be a balun and core saturation starts and heat builds
> up and cooks the core. Permanent damage. There is no problem with core
> saturation in the W2DU choke balun. No core. I never understood the
> reason for the widely accepted use of the 4:1 transformer wound type
> balun because in the case of a long flat top dipole type antenna fed with
> ladder line, you don't have a clue what the feed point impedance is going
> to be on whatever frequency you are trying to tune. It may present a
> 1.5:1 mismatch if you are close to resonance or it may present a 40:1 if
> you are not. In this case a 1:1 balun is much more forgiving than a 4:1
> as the larger the balun ratio the narrower the range of mismatch
> tolerated.

>

> Bill, K5ZTY
> Houston, TX
> k5zty@juno.com

>

>

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Wed, 05 Jul 2000 23:50:08 -0500
From: Stuart Rohre <rohre@arlut.utexas.edu>
To: "qrp-1@lehigh.edu" <qrp-1@lehigh.edu>
Subject: [74328] Another kit wattmeter for QRP
Message-ID: <39640FFF.B6BA829C@arlut.utexas.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Why is it everyone forgets Ten Tec kits?

Some years ago, I built their HF-VHF wattmeter, then found a simple way to convert its 20 watt range to 2 watts full scale. All it takes is a screwdriver on the cal pot for 20 Watts scale! Make the 20 mark on the meter the 2 watt full scale. There is a pot for the VHF pickup side and for the HF pickup. The VHF side is the strip line type, and the Hf is the Stockton meter circuit made famous by "Sprat" of the GQRP Club. The VHF side gives SWR nulls and relative power all the way to 440 MHz.

Granted, pot adjuster has to be a SMALL jewelers screwdriver, but that is the only hard part. When adjusted for a 2W scale, a quarter watt output can be read accurately on the meter. (My 49'er was checked on this set up.) Since then it has been used regularly from 100 watt rigs to the little Pixie. It has scales for (2W), and 20W and 200w, if you want all ranges. It does SWR as well, and is powered by an internal 9V battery or from a coaxial DC power jack built in.

It has a sturdy double steel case, thus RG 213 coax will not drag it off the table, but with UHF connectors, it is easily converted by adapters to BNC.

Best of all this kit only costs \$49!

The manual exceeded the best of Heath manuals. It is a fun project.

Stuart K5KVH
Austin TX

Date: Thu, 06 Jul 2000 00:11:30 -0500
From: Stuart Rohre <rohre@arlut.utexas.edu>
To: "qrp-1@lehigh.edu" <qrp-1@lehigh.edu>
Subject: [74329] ANT: ZS6BKW ant. is a G5RV for WARC, now also a K5KVH

Message-ID: <39641501.607CC48B@arlut.utexas.edu>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Question was asked about had anyone used the ZS6BKW antenna. I have worked a lot of DX with my K5KVH adaptation of the ZS6BKW. This was an antenna Dr. Austin derived for WARC optimization from the G5RV. It was extensively covered some years back in CQ in the Bill Orr, W6SAI column, then in his Antenna Handbook.

Austin, Orr reported, tried it with the balun between ladder line and coax, and without the balun, and noted no significant difference in performance, thus left it out. So did I.

When I sought to use the Austin design, I could not get the center up the 40 foot needed to hang ladder line. But, I had a favorably placed tree off the end of the roof peak. And a chimney at the opposite end gable of the house. Running the 90 foot wire portion NW-SE, I pushed the center feed up with a wood mast from roof ridge, and ran the 40 foot ladderline HORIZONTAL to the tree. A back stay guy to chimney kept the mast upright against the pull of the tree tied ladder line. Thus, the K5KVH/ZS6BKW was born. About 60 feet of RG8x is joined to the ladder line with no balun. Behavior at the rig is very good SWR, except 15m is 3:1. The antenna really gets out on the two favorite bands, 40M and 20M. It is good across country on 15. A transmatch was not used to improve the power transfer on 15, but should take care of the match. (The testing was originally in the nadir of the sun cycle when 15 was not open.)

Orr also reported that the Austin dimensions will result in some parts of some bands having high SWR, but even G5RV suggested a transmatch be used on bands other than 20 on the original design anyway. Were I to do it over, I would run Ladder line all the way to the rig's transmatch. Mine has a very omni pattern but it is low, being 20 feet on one end and 15 on the other, with South tilt. It worked from New Zealand to North America and to Chile in a memorable round table for me. I was the only one who could hear both the stateside and DX stations. Best of all, I made it myself!

Stuart K5KVH

Austin TX

Date: Thu, 06 Jul 2000 07:26:50 GMT

From: aweiss@usd.edu (Ade Weiss WORSP)

To: qrp-1@lehigh.edu

Subject: [74330] Re: Baluns and Antenna Tuners

Message-ID: <200007060524.AAA20114@sunburst.usd.edu>

Hi gang:

The thread is based upon the widespread need to use an antenna tuner that is designed to feed unbalanced coax feedline in a situation where the feedline is actually balanced open line or twinlead.

The matching network in most commercial tuners is NOT intended for a balanced termination. That is why they have been building in a balun since way back when. The approach produces acceptable results in most cases, always with a bit of loss introduced by the balun -- I did a whole bunch of field-strength comparisons a while back and the balun+network ALWAYS showed at least a dB of loss compared to a balanced tuner. If the basic matching network is able to handle impedances both $\gg$ and $\ll$ than 50-ohms, no reason not to insert a balun of either 1:1 or 4:1. The matching network will handle either. However, a given tuner may "like" higher better than lower impedances, which tells you which to pick.

Personally, I prefer a balanced tuner for a balanced feedline. The ZM-2 from Emtech is designed for a balanced load. The only difficult situation was matching the end of the 300-ohm line from my 20m delta loop on 30m, 15m, and 10m. But that was solved by inserting an extra short piece of 300-ohm line to gain additional impedance transformation, and the ZM-2 now handles it with ease.

BUT, I have had problems on various occasions trying to get the ZM-2 to match wacky coax terminations! No big surprise.

LB Cebik did the design articles in QRP QUARTERLY (and on his WEB page) that gives all the technical dope on bulding your own.

Only problem with homebrewing a balanced tuner is the ugly construction. You need access to the taps on the inductances, which can be via a rotary switch, but that introduces other problems. So, my tuners end up with a bunch of tap points soldered onto to the coils, the feedline sort of hangs around in the airspace above the tuner, secured to it thru a pair of very short alligator clip leads.

So, many options are available here, and perhaps the "best" are a one-sided network ("T", "L", "PI") for coax, a balanced system for balanced feedline.

72, Ade

Date: Thu, 06 Jul 2000 00:38:55 -0500
From: Stuart Rohre <rohre@arlut.utexas.edu>

To: "qrp-1@lehigh.edu" <qrp-1@lehigh.edu>
Subject: [74331] ANTENNAS:"IF I only had one antenna---"
Message-ID: <39641B6E.11DB64D4@arlut.utexas.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Well,
after 1999 Field Day, it would have been an easy answer.

After 2000---I am convinced you always need at least two!

Thus, my simplest wire with most bang for the buck, is the Inverted Extended Double Zepp. You take two pieces of 5/8 wave of wire at your lowest band, make a dipole with 5/8 legs, feed with ladder line and a transmatch with balun. Make the wire 14 gauge insulated house wire, (color of your choice). For insulators, use empty vitamin bottles, those white ones from anywhere. Hang the center bottle from a 40 foot mast or tower, with legs east and west, as an inverted Vee. This seems to fill in the lobes normally seen on a 5/8 wire leg. Work the world. Really a killer gain antenna for Field Day, North America work, but does the DX easily as well. Worked more sections QRP SSB than we had as QRO entry before. Took 10 minutes to string out and tie off. Ours had 157 foot legs! And our CW entry had 175 foot legs!

That is based on 80M. For home use, try one based on 20m and the transmatch will make it play on 40 at least. Or fold the ends to fit the lot.

Now in 2000, we had that, but for reasons still to be explained, we found a horizontal loop 20 feet lower (or more!) worked with louder receive, and covered North America to the coasts just fine. Now the loop was 20 feet over an end zone of a football practice field, and triangle shaped. The E-W was 300 feet, and another 330 feet made up the other two legs. Again ladder line fed at the West corner to transmatch.

Was favoring NA, and attenuated the European BC at night, but was very favorable to hearing southern Europe! (Go figure). Did not get out on 80, although we could hear fine. The stations hearing us on 80, said we were in the static, so our high lobes must have skipped over them or fell short of them. This was around midnite of Sat. local.

We made an unintended change in the Zepp position this year to clear tree growth, and this resulted in angling the west leg 30 degrees North. This probably adversely shifted the X cross lobes away from ham centers of activity to NE. It also was closer to the CW Zepp than last year. Theirs played much better this year than a tri band beam!

Let's make that "If I can only have one wire and a back-up"

72, Stuart K5KVH
Austin TX Antenna Master of W5KA, qrp 2a

Date: Wed, 05 Jul 2000 23:11:12 -0700
From: Jim/Julia <w7ls@blarg.net>
To: aweiss@usd.edu
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [74332] Short antenna efficiency question
Message-ID: <39642300.7A5641D0@blarg.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

We all know that a shortened, end fed antenna is not as efficient a radiator as one that is a quarter wavelength long, because the radiation is a function of current flow, and that is maximum at the center of a dipole (or the low end of a quarter wave vertical) and minimum at the tip. Given that assumption/explanation, answer this:

If I were to pump a hundred watts (as we all did, in our mis-spent youth) into a tuner that was directly feeding an electrically short antenna (say, a simple 10 foot whip on 80 meters), and the tuner 'soaked it up', and made a nice, flat SWR, as measured at the input to the tuner, then we would say that while the tuner made the rig 'happy', it still did not yield a good radiating antenna, because it is so short. What the tuner was doing was taking a nominally capacitive load, and inserting the complex conjugate impedance, and then transforming the real part of the impedance to 50 ohms. Ok for tech-talk, so far.

Since we sprayed 100 watts into the tuner, and we have an inefficient radiator to dissipate that 100 watts, and the power has to go someplace, then we are left with one hot tuner. How hot? As hot as box with about a hundred watt soldering iron inside it (actually, 100 watts less whatever small amount a 10 foot whip could radiate). But wait! My failing memory recalls doing this, but I don't recall any hot-tamale tuner.

You can't hide almost a hundred watts. Apriori, I know that I have a cool tuner. In theory, I have an inefficient antenna. Where did the power go?

Lights out at midnight, now.... Gotta get up for work, tomorrow. :-)

Jim W7LS

Date: Thu, 6 Jul 2000 02:10:41 -0400 (EDT)
From: Bob Patten <n4bp@bc.seflin.org>
To: Bill Stietenroth <k5zty@juno.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [74333] Re: Field Day rule adjustment proposal
Message-ID: <Pine.3.89.10007060205.C18753-01000000@bc.seflin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 5 Jul 2000, Bill Stietenroth wrote:

>
> Have you gone bonkers?? What do you mean QRP is no challenge for field
> day? To do any scoring at all the QRPers have to put up the best
> antennas of all and work the hardest for each contact. Maybe you need to
> try a QRP field day and see if it presents you a challenge. You know not
> of what you speak.

>
If you treat FD as a contest (I certainly do and think Ron probably does
also), it really is easy to outscore higher power stations by running
QRP. My team has made the top five single-transmitter score in quite a
few FD's over the years. And we only use a simple trap vertical about 18
feet tall fed with five watts. Remember, a QRP contact is worth five
made with higher power...

73,

Bob Patten, N4BP (0 0) Plantation, FL

-----o00o-()-o00-----

E-Mail: n4bp@bc.seflin.org
Web Page: <http://www.qsl.net/n4bp>
Brass Pounder BBS: (954) 472-7715
SOC #1Whiners #6

Date: Thu, 6 Jul 2000 05:54:44 -0400
From: John AE5X <ae5x@juno.com>
To: qrp-1@lehigh.edu
Subject: [74334] Lost emails from "Backpacking with QRP" posting
Message-ID: <20000706.055445.14334.0.ae5x@juno.com>

My request for information, ideas, lessons learned, equipment used, etc.
(on QRP backpacking) a few days ago generated some informative emails.
All of which I lost due to a computer snafu.

If you're one of the 8-10 folks who responded to that request, please re-send your email to me. I'm interested in sharing the info with others (via my web page), with your permission and with proper credit given.

Thanks and 72,

John Harper AE5X
HW-9, OHR-100A/20, NC40A, SST30, SST40, DSW20
Outdoor QRP: <http://home.att.net/~j..harper>

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<http://dl.www.juno.com/get/tagj>.

Date: Thu, 6 Jul 2000 08:34:02 -0400
From: John R Kirby <n3aaz-qrp@juno.com>
To: jimdurkin@yahoo.com, qrp-l@Lehigh.EDU
Subject: [74335] Re: NPR report on DSP Ant.
Message-ID: <20000706.084351.-179389.0.n3aaz-qrp@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

DSP antennas,

>Any comments appreciated.

I "look" at it like this:

. . . Camera lens and antenna have at least one thing in common,

. . . efficiency (or lack of) . . .

. . . the larger the aperture (for a given lambda) the better the device performs,

. . . then I remember Hubble . . .

. . . what would we "see" with out DSP?

John
N3AAZ
FM19xa

On Wed, 5 Jul 2000 18:21:10 -0700 (PDT) Jim Durkin <jimdurkin@yahoo.com> writes:

>Did anyone hear the NPR report on DSP antennas? I
>think it was on 7/3/00 in Morning Edition. Not sure I
>got it all but it sounded like a small antenna (the
>size of a pc board) could be used in place of a large
>(dipole sized) antenna. The key was the use of digital
>signal processing to sort, amplify, etc.

>
>Seemed like it might be too good to be true. Perhaps
>only good for receiving??

>
>Any comments appreciated.

>
>73
>Jim kt4a

>
>-----
>Do You Yahoo!?
>Send instant messages & get email alerts with Yahoo! Messenger.
><http://im.yahoo.com/>

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<http://dl.www.juno.com/get/tagj>.

Date: Thu, 6 Jul 2000 04:57:48 -0700 (PDT)
From: Steve Yates <aa5tb@yahoo.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74336] Re: Short antenna efficiency question
Message-ID: <20000706115748.23453.qmail@web3001.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Jim/Julia,

I think that your mystery lies in the fact that the efficiency of a short antenna is a function of the radiation resistance as compared to the total resistance of the system, not that you are closer to the "tip" of the antenna. Short antennas always have a much lower radiation resistance (mobile whips, small

transmitting loops, etc.) and therefore resistance in conductors, ground system, and dielectric losses begin to have much more effect on the losses. In other words, when the radiation resistance is high little energy is dissipated in these resistive components but as the radiation resistance is decreased, these components start dissipating the energy rather than radiating it.

The answer to your question is that the lost energy that you speak of is dissipated in the antenna conductor, ground system, lossy dielectrics near the end of the antenna, and in the tuner itself. This energy is turned into heat but it is spread out all over the place and is easily dissipated (usually).

I hope this makes sense. It is still early.

=====

73,

Steve Yates - AA5TB

Fort Worth, TX - EM12gs

<http://www.geocities.com/aa5tb>

aa5tb@arrl.net

Do You Yahoo!?

Send instant messages & get email alerts with Yahoo! Messenger.

<http://im.yahoo.com/>

Date: Thu, 6 Jul 2000 08:08:42 -0400

From: Nils R Young <nilsbull@juno.com>

To: elecrafft@qth.net, QRP-L@lehigh.edu

Subject: [74337] Switching power supply question

Message-ID: <20000706.081005.-284391.0.nilsbull@juno.com>

MIME-Version: 1.0

Content-Type: text/plain

Content-Transfer-Encoding: 7bit

Amigos,

In last minute preparations for the vacation exodus, I have to find room

for the 12 lb 20A/12VDC power supply among the other deteriorata. That's a box bigger by two dimensions than the amplifier itself (which is no problem to hide [under the driver side seat . . .]).

In the Radio Shack.com catalog there is listed a \$119.95 23A switching power supply. Samlex America model SEC1223, 3 lbs, supposedly "exhibits none of the RFI problems normally found in switch-mode power supplies." (And yes, I realize that this is a catalog item & may not be available in stores.) Anybody have experiencia with this kind of beast?

It's possible that I'll find a place to hide the present monster PS, but I thought I'd ask the unindicted list of co-conspirators before making the phone calls to the local stores.

73

Nils

Nils R. Bull Young -- El Gringo Errante -- La Estancia de los Guajolotes
Sonrientes
<http://www6.50megs.com/w8ijn> -- W8IJN -- <http://members.xoom.com/nilsbull>
In my day you had to FIGHT to have digits! Every DAY was a STRUGGLE!
--- Comrade Nikolai Sergeevich McTovarishov

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<http://dl.www.juno.com/get/tagj>.

Date: Thu, 6 Jul 2000 08:26:23 +0100
From: "Bob Duckworth" <wb4mnf@atl.org>
To: "baswaplist" <baswaplist@foothill.net>, <qrp-1@Lehigh.EDU>, <premium-
rx@kahuna.sdsu.edu>
Subject: [74338] Fw: Anyone have manuals for Manson MRS400 and/or Manson FRR
'unreadable' see photo
Message-ID: <200007061225.IAA06383@hat-trick.atl.org>

Manson labs. manuals needed.

Hallicrafters name on Vietnam era and later radios?
It has been reported that the HT-1 'village radio'
(it takes a village to...)
was built by them. Well here's some more late model
stuff sporting the Hallicrafters name.

|
| MRS400
| <http://www.edebris.com/Manson/mvc-003f.jpg>
|
| FRR 'unreadable'
| <http://www.edebris.com/Manson/mvc-004f.jpg>
|
| -bob
| wb4mnf
|
| Yes, these are hollowstate radios, incl the synth.
| <http://www.edebris.com/Manson/>
| a few additional photos
| Apologies for photo quality. Not enough light in attic.
|
-bob

Date: Thu, 6 Jul 2000 07:06:57 -0700
From: "Coote, Jay" <JCoote@ci.arcadia.ca.us>
To: "'k5di@zianet.com'" <k5di@zianet.com>, Low Power Amateur Radio Discussion
<qrp-l@Lehigh.EDU>
Subject: [74339] RE: Baluns and antenna tuners
Message-ID: <131CE266CAD0D211B3550008C7C9A2D51CBC23@arcadia-pd1.arcadiapd.com>
MIME-Version: 1.0
Content-Type: text/plain

Interesting thread!

A few ideas..

In measuring balun balance, some Amateurs have used these tests:

1. Using center-tapped resistive loads at the tuner-balun output
(ex: 200 ohm load = 2x100 ohms in series) measure RF voltage
between each resistor and center-tap.
2. Make a "current" probe of 10-20 t around a small ferrite.
Slip the ferrite over each antenna (balanced) lead with
the probe connected to RF detector or RF VM.

Measuring tuner-balun efficiency might be accomplished by
first measuring the RF power going into the tuner/balun.

The next step will be to measure the RF voltage across
whatever value resistive load is connected across the tuner
(balun) terminals. Scope, RFVM or RF probe could be used.

It may be wise to use the same instrument to measure the
(known) RF voltage at the tuner input.

73,
Jay
W6CJ

-----Original Message-----

From: Karl F. Larsen [mailto:k5di@zianet.com]

Sent: Wednesday, July 05, 2000 9:24 PM

To: Low Power Amateur Radio Discussion

Subject: re: Baluns and antenna tuners

The problem is Bill, I use those 4:1 baluns on a core everywhere and when I'm running QRO at 100 watts for a long period of time, say 4 hours, I have placed my fingers around the balun in an MFJ tuner and it's not even warm!

Your RG-213 with ferrite rings is a throwback to 1960. When decent cores were not available. No-one thinks that is a balun and it isn't. Do this: replace the 400 ohm ribbon with 2 220 ohm resistors in series. Using real low power so you don't pop the resistors bring the resistors into a good match with zero swr to your radio with your antenna tuner. Now hook a wire from the center of those resistors to the shield of your coax. The swr should not change a single bit. But with your non-balun it change a large amount. I do the same thing with the MFJ 4:1 balun and they are perfect.

On Wed, 5 Jul 2000, Bill Stietenroth wrote:

> The most trouble free and wide range balun is the W2DU choke balun.
It
> is 1:1 and doesn't care what the reactance is. It is made out of a
> length of 52 ohm coax with close fitting ferrite beads strung over it.
I
> use one that is just over a foot long with a BNC connector on one end
and
> ring tongue connectors on the other. I plug it into the antenna
> connector on my K2 and hook the ring tongues to the ladder line and
let
> the auto tuner do the rest. It will also work with a manual tuner the
> same way. The 4:1 baluns in most CLC tuners are bad if they have been
> used any where close to their rated power output.(be wary if you buy
a
> used one) Those baluns only work in a very narrow range of reactances.

> When an antenna presents a reactance to them that is outside of that
> range they cease to be a balun and core saturation starts and heat
builds
> up and cooks the core. Permanent damage. There is no problem with
core
> saturation in the W2DU choke balun. No core. I never understood the
> reason for the widely accepted use of the 4:1 transformer wound type
> balun because in the case of a long flat top dipole type antenna fed
with
> ladder line, you don't have a clue what the feed point impedance is
going
> to be on whatever frequency you are trying to tune. It may present a
> 1.5:1 mismatch if you are close to resonance or it may present a 40:1
if
> you are not. In this case a 1:1 balun is much more forgiving than a
4:1
> as the larger the balun ratio the narrower the range of mismatch
> tolerated.
>
> Bill, K5ZTY
> Houston, TX
> k5zty@juno.com
>
>

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Thu, 06 Jul 2000 08:19:09 MDT
From: "Jerry McCollom WOMC" <w0mc@hotmail.com>
To: jimdurkin@yahoo.com, qrp-1@Lehigh.EDU
Subject: [74340] Re: NPR report on DSP Ant.
Message-ID: <20000706141909.22248.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

FYI, you can hear the RealAudio version at:

<http://www.npr.org/ramfiles/me/20000703.me.08.ram>

Interesting indeed... but I doubt I'll get a 160M version :-)

Jerry
WOMC

QRP-L #800

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>

Date: Thu, 6 Jul 2000 07:58:36 -0700
From: "Coote, Jay" <JCoote@ci.arcadia.ca.us>
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>
Subject: [74341] Looking for 6M CW Transmitter
Message-ID: <131CE266CAD0D211B3550008C7C9A2D51CBC28@arcadia-pd1.arcadiapd.com>
MIME-Version: 1.0
Content-Type: text/plain

I am looking for a simple, 5-watt, crystal-controlled (I'll add a VX0)
CW
transmitter for six meters. Are there any kits or "ugly" circuits?
I could use schematics of the same if you can email them.
Thanks & 73
Jay
W6CJ

Date: Thu, 6 Jul 2000 11:27:40 -0400
From: Ronald_A_Pfeiffer@res.raytheon.com
To: qrp-l@Lehigh.EDU
Subject: [74342] FS: TS850S + AT and SW40+
Message-ID: <85256914.0054EA1F.00@ressud-as01.res.ray.com>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii
Content-Disposition: inline

I have two items to sell now that I'm putting together my K2:

1. Kenwood TS850S - AT

I added a new Kenwood autotuner from AES last year. I am a
non-smoker and this unit is in excellent condition. Have 2.1 filter
installed, mic., and power cable with original box.
Asking \$900 plus shipping from MA.

2. SWL40+ excellent rig. Comes in Small Wonder case- \$90 plus
shipping from MA.

Ron - N1ZSW

Date: Thu, 06 Jul 2000 15:29:07 +0000
From: Goran Hosinsky <hosinsky@royac.iac.es>
To: qrp-1@lehigh.edu
Subject: [74343] End fire wire antenna ideas?
Message-ID: <3964A5C3.9DB739C4@royac.iac.es>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi,

I would like to put up a wire antenna at work pointing towards the US. I have two supports at a distance of 25 meters one 11 m high (at the US end) and one 3 meters high. There is a copper ground wire running between the two supports and up the higher one.

The ground is very poor, dry volcanic ash. The ground slopes at about 5-10 deg down for 2 km and then drops of rapidly down to the sea, 2400 meters down.

I have hung center fed dipole with open wire feed between the two supports with excellent results, but not much radiation in the US direction.

I can get a one wavelength (20m) triangular loop hung from the 11 meter high tower but it will have the tower, very full of iron, covering it just 8m in front.

I would like a 28MHz - 14Mhz antenna using a tuner, but if I cannot get that I'd settle for 20meters. The construction has to be discrete using just wires.

Any ideas?

73
Goran ea8yu

Date: Thu, 06 Jul 2000 08:43:49 -0700
From: Phil Wheeler <w7ox@earthlink.net>
To: nilsbull@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [74344] Re: Switching power supply question

Message-ID: <3964A935.1D1EDCF1@earthlink.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Nils,

There was an article in a recent (past 12 months) QST with data on the noise characteristics of several switching supplies in that range. Try Jan 2000.

I have an Astron unit, and have had no problems with it.

Phil

Nils R Young wrote:

>
> Amigos,
>
> In last minute preparations for the vacation exodus, I have to find room
> for the 12 lb 20A/12VDC power supply among the other deteriorata. That's
> a box bigger by two dimensions than the amplifier itself (which is no
> problem to hide [under the driver side seat . . .]).

>
> In the Radio Shack.com catalog there is listed a \$119.95 23A switching
> power supply. Samlex America model SEC1223, 3 lbs, supposedly "exhibits
> none of the RFI problems normally found in switch-mode power supplies."
> (And yes, I realize that this is a catalog item & may not be available in
> stores.) Anybody have experiencia with this kind of beast?

>
> It's possible that I'll find a place to hide the present monster PS, but
> I thought I'd ask the unindicted list of co-conspirators before making
> the phone calls to the local stores.

>
> 73
>
> Nils
> -----
> Nils R. Bull Young -- El Gringo Errante -- La Estancia de los Guajolotes
> Sonrientes
> <http://www6.50megs.com/w8ijn> -- W8IJN -- <http://members.xoom.com/nilsbull>
> In my day you had to FIGHT to have digits! Every DAY was a STRUGGLE!
> --- Comrade Nikolai Sergeevich McTovarishov
>
> -----
> YOU'RE PAYING TOO MUCH FOR THE INTERNET!
> Juno now offers FREE Internet Access!
> Try it today - there's no risk! For your FREE software, visit:

> <http://dl.www.juno.com/get/tagj>.

Date: Thu, 6 Jul 2000 11:47:18 -0400 (EDT)
From: "Paul R. Valko" <prvalko@oakland.edu>
To: "Coote, Jay" <JCoote@ci.arcadia.ca.us>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74345] Re: Looking for 6M CW Transmitter
Message-ID: <Pine.OSF.4.21.0007061144500.813-100000@saturn4.acs.oakland.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

If you have a 20M QRP rig anyway, the best thing to do is get the \$99 Ten*Tec 20M to 6M transverter. It's THE way to try the "magic band" on a shoe string.

During last night's massive 6M opening, I worked a ham in Montreal who was running the transverter with 8 watts to a five el yagi and he was 20 over S9 here north of Detroit.

73! =paul= W8KC
Collector of Ten*Tecs and other fine plastics.
Visit the Virtual Ten*Tec Museum at:
<<http://www.acs.oakland.edu/~prvalko>>

Date: Thu, 06 Jul 2000 15:47:56 +0000
From: Goran Hosinsky <hosinsky@royac.iac.es>
To: qrp-l@lehigh.edu
Subject: [74346] End fire wire antenna ideas? addendum
Message-ID: <3964AA2C.A3350773@royac.iac.es>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Forgot to say: I can get a wire about 45 degrees of from the one pointing directly at the US, same length and same second support height.
Goran

Date: Thu, 06 Jul 2000 09:32:57 -0700

From: Jerry Parker <jparker@fix.net>
To: qrp-1@LeHigh.edu
Subject: [74347] New Postings
Message-ID: <2.2.32.20000706163257.013ca3e4@fix.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Just added the downloadable CW DeCoder Program
by Grant Connell WD6CNF.

Grant has built this program from scratch.

Also,

Jay is at it again with another kit from the
Ft. Smith group. Yep, the P-Tick is up on the
NorCal Page also and what a GREAT buy. They are
still offering the VE3DNL Marker Generator Kit too.

Check it out!

<http://www.fix.net/norcal.html>

Enjoy,,,72,,,Jerry...WA6OWR...k

Date: Thu, 6 Jul 2000 12:12:32 -0400
From: "Richard Brummer, K2JQ" <k2jq@bestweb.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>,
<JCoote@ci.arcadia.ca.us>
Subject: [74348] Re: Looking for 6M CW Transmitter
Message-ID: <002801bfe764\$fefe7ca0\$0903b3d8@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>If you have a 20M QRP rig anyway, the best thing to do is get the \$99
>Ten*Tec 20M to 6M transverter. It's THE way to try the "magic band" on a
>shoe string.

Or, if you really feel adventurous, you could build the 2N2/6, designed by
Jim Kortge, K8IQY. You'd need a 40M rig to work along with that.

73,
Dick K2JQ
Mahopac, NY

Date: Thu, 6 Jul 2000 10:13:00 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-l@LeHigh.EDU>
Subject: [74349] Summer Fox Hunt Teams
Message-ID: <Pine.LNX.3.95.1000706100302.15006E-1000000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

With the hunt beginning tonight, July 6th., here are the Teams so far.....

- (1) - SWAMP RATS:
 - K0EVZ - Doc
 - NV4V - Pete
 - AF4PS - Mac
 - AJ4Y - Paul
 - N1TP - Tom
- (2) - QRP CHEESEHEADS:
 - N9AW - Jerry
 - NK9G - Rick
 - AE9K - Brian
 - WA9TZE- Jim
 - tba
- (3) - RAIDERS OF THE LOST RF:
 - NA6E - Mary
 - VE3FAL - Fred
 - VA6RF - Earl
 - VE5RC - Bruce
 - tba
- (4) - THE FLYING PIGS:
 - KB9BVN - Brian
 - N8IE - Dan
 - W8DIZ - Diz
 - WB6JBM - Rick
 - AC7CF - Andrew

(5) - GANDALF the GREY:
- G0JJQ - Wayne

**** - with our first entry from across the pond, let's all be listening for Wayne's signal and sending him an e-mail if we hear him...I'm sure he would like to know IF he's making it along with a signal report...Wayne is also trying to raise a Team...his address is:

w.dillon@ic.ac.uk

....any more please?

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - SOC #11 & #12 - Whiner#10 -
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

Date: Thu, 6 Jul 2000 09:11:05 -0700
From: "Coote, Jay" <JCoote@ci.arcadia.ca.us>
To: "'hosinsky@royac.iac.es'" <hosinsky@royac.iac.es>, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74350] RE: End fire wire antenna ideas?
Message-ID: <131CE266CAD0D211B3550008C7C9A2D51CBC2B@arcadia-pd1.arcadiapd.com>
MIME-Version: 1.0
Content-Type: text/plain

Goran and the List;
With enough space and that sloping property, there should be some wire antennas that would work towards North/Central/South America. If there is enough room, you might consider true "long wire" antennas. There are several types of longwires such as end-fed, center-fed (also called doublet) and V-shaped. The idea in longwires is to calculate the length you will need to put out a signal lobe at the angle you desire. Generally, the longer the wire, the more lobes- and the main lobe(s) will be closer to the direction of the wire as length or frequency increase. A longwire or longwire V, optimized for 20 M could also be tuned on other bands with balanced feed and a tuner. The lower bands would have less directivity.

73

Jay

W6CJ

-----Original Message-----

From: Goran Hosinsky [mailto:hosinsky@royac.iac.es]

Sent: Thursday, July 06, 2000 8:29 AM

To: Low Power Amateur Radio Discussion

Subject: End fire wire antenna ideas?

Hi,

I would like to put up a wire antenna at work pointing towards the US. I have two supports at a distance of 25 meters one 11 m high (at the US end) and one 3 meters high. There is a copper ground wire running between the two supports and up the higher one.

The ground is very poor, dry volcanic ash. The ground slopes at about 5-10 deg down for 2 km and then drops of rapidly down to the sea, 2400 meters down.

I have hung center fed dipole with open wire feed between the two supports with excellent results, but not much radiation in the US direction.

I can get a one wavelength (20m) triangular loop hung from the 11 meter high tower but it will have the tower, very full of iron, covering it just 8m in front.

I would like a 28MHz - 14Mhz antenna using a tuner, but if I cannot get that I'd settle for 20meters. The construction has to be discrete using just wires.

Any ideas?

73

Goran ea8yu

Date: Thu, 6 Jul 2000 09:13:16 -0700

From: "Coote, Jay" <JCoote@ci.arcadia.ca.us>

To: "'k2jq@bestweb.net'" <k2jq@bestweb.net>, Low Power Amateur Radio Discussion
<qrp-1@Lehigh.EDU>

Subject: [74351] RE: Looking for 6M CW Transmitter

Message-ID: <131CE266CAD0D211B3550008C7C9A2D51CBC2C@arcadia-pd1.arcadiapd.com>

MIME-Version: 1.0

Content-Type: text/plain

I'll look at the 40m design below, but only just need a 6 meter transmitter, crystal control that I can "VX0" for now. The receiver downconverter and receiver are taken care of.

Thanks & 73

Jay

W6CJ

-----Original Message-----

From: Richard Brummer, K2JQ [mailto:k2jq@bestweb.net]

Sent: Thursday, July 06, 2000 9:13 AM

To: Low Power Amateur Radio Discussion

Subject: Re: Looking for 6M CW Transmitter

>If you have a 20M QRP rig anyway, the best thing to do is get the \$99
>Ten*Tec 20M to 6M transverter. It's THE way to try the "magic band" on
a
>shoe string.

Or, if you really feel adventurous, you could build the 2N2/6, designed
by

Jim Kortge, K8IQY. You'd need a 40M rig to work along with that.

73,

Dick K2JQ

Mahopac, NY

Date: Thu, 6 Jul 2000 09:25:32 -0700

From: "n6wg:First n6wg:Last" <n6wg@earthlink.net>

To: <qrp-l@Lehigh.EDU>

Subject: [74352] Re: Altoids tins

Message-ID: <006701bfe766\$cee5a460\$14f0fc9e@oemcomputer>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Dan

I've built two broadband preamplifiers in them.

Also Steve Weber built a PA in one. I think he described it in a recent QRP ARCI Quarterly issue.

73, Bob N6WG

Date: Thu, 6 Jul 2000 11:20:28 -0500
From: "Cla KA0GKC" <ka0gkc@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [74353] Re: Short antenna efficiency question
Message-ID: <024101bfe766\$66583340\$0200000a@mcg.net>

Steve's reply was on the mark. However there is one thing that is often overlooked in these situations. Even if you use a tuner to "make the rig happy" the SWR is still there. But what does this mean? I've used this term before and I think it's a good description of what an antenna tuner really is, it's a "power re-reflector". When the SWR at the tuner is high, such as a 10 foot whip on 80 meters as Jim W7LS described, a good portion of the power that goes up the feedline comes back. The antenna tuner, with it's reactive elements, absorbs and then returns this power back up the feedline and a good portion of it comes back again. Now there are losses in the tuner, balun if used, feedline and the antenna itself. This back and forth travel of the energy due to the SWR passes through these losses many times and adds up. There is the reason parallel line has coax beat in multiband non-resonant antennas, the loss in parallel line is many times less than coax and adds up to much less loss in these higher SWR situations.

So if we take Jim W7LS's antenna and we use a very efficient tuner such as a balanced link coupler, parallel low loss feed line, make the 10 ft radiator out of large copper pipe to reduce the resistance, and provide a very very good ground we could actually have a very decent and effective antenna with quite acceptable efficiency.

73 de Cla KA0GKC

Date: Thu, 6 Jul 2000 12:26:03 -0400
From: Peter_Simpson@ne.3com.com
To: qrp-l@lehigh.edu
Subject: [74354] Wanted: TS-140 manual to copy for prospective ham
Message-ID: <85256914.005A47EE.00@usboxmta.ne.3com.com>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii
Content-Disposition: inline

Hi gang -

My nephew (age 12, a prospective ham) was just given a TS-140 (minus manual). I'm looking for an owner's manual (already checked the Kenwood website) to copy and return, will pay postage both ways, etc. I know I can buy one from one of the manual guys, but thought I would ask here, first.

We put up an inverted vee this past weekend, and he's very excited about studying for his ticket. I'm gently pushing him towards the code :-)

Peter, KA1AXY

Date: Thu, 6 Jul 2000 09:34:36 -0700
From: "n6wg:First n6wg:Last" <n6wg@earthlink.net>
To: <qrp-1@Lehigh.EDU>
Subject: [74355] Re: End fire wire antenna ideas?
Message-ID: <006b01bfe768\$13333000\$14f0fc9e@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Goran

One possibility would be to run a rope between your supports. Use it as the boom for a wire beam. The elements would probably be inverted vees, but you could hang several elements on this "boom". Perhaps even have separate "beams" for each band, all interlaced along the "boom".

73, Bob N6WG

Date: Thu, 6 Jul 2000 12:38:06 -0400
From: "J. Ervin Bates" <w8erv@email.msn.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [74356] Rohn 25G?
Message-ID: <008b01bfe768\$90d115e0\$c84c1d3f@win98>

If anyone in the Michigan, Northern Ohio, Northern Indiana or Chicagoland area has a top section of Rohn 25G available, please email me direct. I

need to find a top for my tower as soon as possible and if it's worth the drive, I can make it. Please include asking price in your email.

Thanks, es 72,
Erv W8ERV

HamFair2000 is coming...ask me about it!
"Dare to Dream-It Sets Your Spirit Free!"

10-10# 70639 - QRP-ARCI# 9702 - SOC# 41
QRP-L #1569 - NorCal Zombie #236 - Worked All
El Paso #033/1999 - Member, MI DX Assn.
MI QRP Club, M-1688 - FPqrp- 50 - Member ARRL
Rag Chewers' Club - WAC -

Date: Thu, 6 Jul 2000 12:21:40 +0000
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [74357] NH AT ALERT
Message-ID: <200007061659.MAA10288@wolf.ncia.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Hey Gang,

I will also be activating the AT in NH Sunday afternoon, making it a tripple header. Since there will be a chance of rain or showers, I will be operating from the Genchin Pond shelter, a few miles from the NH - Maine line. I believe the shelter is at about 3500 ft and has a wonderfull view down and across the Mt Washington valley. Should get out good from there.

Will operate 20 and 40 M, +/- the usual. Look for me between 1 and 6 pm EDT.

All we need now is to have someone take a drive up to the Blue Ridge Parkway and activate Virginia. That should be easy, you don't even have to carry gear up any darn hills! Same goes for anyone near the Smokey Mts, you can drive up to the top of Clingmans dome. How about it guys?

72,
Steve, KD1JV in the white Mountains of New Hampshire
"melt solder"

Date: Thu, 6 Jul 2000 12:57:53 -0400
From: "J. Ervin Bates" <w8erv@email.msn.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [74358] Wire Antenna Program at CMARC
Message-ID: <00a701bfe76b\$59ca2480\$c84c1d3f@win98>

Hi Gang!

Hope the Independence Holiday was a good one for you. For those who are interested, Friday (July 7) will be a great time for our Club.

Beginning at 8pm, the Central Michigan Amateur Radio Club, located at 1800 E. Grand River (Lansing Red Cross Building) welcomes Terry, W8TI for his presentation on Wire antennas. We have heard great reviews of Terry's talk and we want to encourage anyone and everyone who can make the trip to do so. Refreshments will be served and we will also be taking a vote on our new Club logo.

>From I 96, take 127 North to the Grand River exit. Head West on Grand River and begin working your way into the left lane. About 3/4 to one mile up, just past the elementary school, you will see the Red Cross. Park in the lot and come upstairs. Talk in is 145.390 with a PL of 100hz.

Hope to see you all there!

72,73,
Erv W8ERV

HamFair2000 is coming...ask me about it!
"Dare to Dream-It Sets Your Spirit Free!"

10-10# 70639 - QRP-ARCI# 9702 - SOC# 41
QRP-L #1569 - NorCal Zombie #236 - Worked All
El Paso #033/1999 - Member, MI DX Assn.
MI QRP Club, M-1688 - FPqrp- 50 - Member ARRL
Rag Chewers' Club - WAC -

Date: Thu, 06 Jul 2000 13:04:34 -0400
From: normany@mindspring.com
To: qrp-l@lehigh.edu
Subject: [74359] WTB:Crystal for Heath DX40
Message-ID: <Springmail.105.962903074.0.535818000@www.springmail.com>

Boatanchor buffs and/or packrats...

I was recently given an old Heathkit DX 40 and VFO 1 which will become the transmit portion of a loaner CW station for a new ham (and hopefully QRPer).

I want to smoke test the transmitter and the VFO separately, so I am in need of at least one crystal for the DX 40. Any 40 or 80 meter CW frequency is OK, but a QRP frequency would be a plus. This will be primarily used to check out the transmitter rather than for operating, assuming the VFO is good.

Please email me direct with particulars if you have one to sell.

72,
Norman
KA4PUV

Date: Thu, 6 Jul 2000 11:16:13 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: Manager QRP-L <manager@astro.cc.lehigh.edu>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74360] Re: QRP-L Rules FAQ
Message-ID: <Pine.SUN.4.10.10007060905420.12894-1000000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 5 Jul 2000, Manager QRP-L wrote:

> And finally, just like all good old west towns, we have only ONE sheriff. The

And who is this ONE sheriff? Who is this new QRP-L LIST MANAGER?

If QRP-L is being converted from an OPEN reflector back to a MODERATED one, I think we have the right to know who our new moderator is. If we are being asked to be accountable for our actions (as it should be), then so too should the moderator be accountable for his. I've never seen a reflector with an anonymous moderator before. Hams have always been "self regulating" on the air, and it has worked

fairly well on qrp-l. And with us having our own FCC call letters, anonymity exists nowhere else in ham radio.

So Jim, can you please inform us who the moderator or moderators for QRP-L are?

Many thanks,
Paul NA5N
National Radio Astronomy Observatory
Socorro, New Mexico

Date: Thu, 6 Jul 2000 10:18:21 -0700 (PDT)
From: Monte Stark <ku7y@dri.edu>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74361] Ft. Tuthill :-(
Message-ID: <Pine.GS0.4.10.10007061009090.25804-1000000@rotor.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi All,

After telling everyone that I'd be at Ft. Tuthill again this year, I was marking up the dates and found that it had been moved to the last weekend in July!

This conflicts with a prior commitment to the Bluegrass Festival folks that same weekend!

So it is with MUCH regret that I must pass on the Ft. Tuthill get together this year. :-(

Folks, this is, IMHO, the best of the bunch. Great location, people and events. If you can make it, please do.

No other QRP get together (that I know of) has such good BBQ steaks and camp fire BS sessions!

Who knows, you might even get to watch a well known QRPer try to use his little transciever to contact a good sig from another well known QRPers Regen! :-)

Ahhhhhhh, I'm gonna miss it!

(We are having server system troubles so I hope this

goes through OK)

73, Ron

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@qsl.net....SOC #2.....Nevada....NRA LIFE....
.....SOWP 5545M.....WHINERS #1.....ZOMBIE #18.....
....Visit my Home Page.....<http://www.qsl.net/ku7y/>....

Date: Thu, 06 Jul 2000 10:21:43 -0700
From: Russ Carpenter <russ@natworld.com>
To: QRP-L List <qrp-l@lehigh.edu>
Subject: [74362] Results of the JULY SPARTAN SPRINT
Message-ID: <B58A0E36.5124%russ@natworld.com>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Thunder bumpers were booming across the country, so conditions for the July Spartan Sprint were a bit noisy. But a sizable group of Sprinters had a great time, ran up very good scores, and filed a record number of logs.

Each contact received one point. If you didn't tell us the weight of your station, or if it was in the nature of an elephant, we assigned a weight of 30 pounds.

The soapbox was published separately in the July issue of The ARS Sojourner, which went live today. Don't miss it! <http://www.natworld.com/ars>

THE SKINNY DIVISION (results sorted in order of points per pound)

Call	Name	80m	40m	20m	15m	10m	Total Qs	Wt.	Qs/ Pound
W3DX	Rob	0	0	46	0	0	46	.5	92.0
AA4XX	Paul	0	0	23	0	0	23	.3	76.7
W7QQQ	Jack	0	0	25	0	0	25	.6	41.7
NF9K	Joel	0	0	25	0	0	25	1.5	16.7
K7TQ	Randy	0	0	40	0	0	40	2.6	15.4
K2UD	Howard	0	0	23	0	0	23	1.7	13.5
W1PID	Jim	0	15	12	0	0	27	2.9	9.3
K7UD	Dee	0	0	11	0	0	11	1.4	7.9
N4HAY	Dick	0	9	21	0	0	30	4	7.5
K1QM	Joel	0	20	11	2	0	33	5	6.6
WJ4P	Randy	0	2	23	0	0	25	4	6.3

WA4SQM	Ken	0	0	4	0	0	4	.7	5.7
AB0GO	David	0	0	17	0	0	17	3	5.7
K9YT	San	0	0	15	0	0	15	2.9	5.2
K4ZM	Jim	0	5	45	0	0	50	10	5.0
W9QZ	Rick	0	0	19	0	0	19	4.2	4.5
N6XI	Rick	0	8	32	5	0	45	10	4.5
AF4PS	Mac	0	0	20	0	0	20	4.5	4.4
AA8PJ	Jeff	3	10	1	0	0	14	3.5	4.0
K7RE	Brian	0	0	39	6	0	45	12	3.8
N3AO	Carter	1	4	17	0	0	22	6	3.7
K04WX	Mike	0	0	4	0	0	4	1.1	3.6
KH6B	Dean	0	0	15	6	0	21	6	3.5
AE6N	Jim	0	0	17	0	0	17	5	3.4
N0IBT	Dave	0	0	15	0	0	15	4.5	3.3
N7RVD	Brian	0	0	27	4	0	31	9.5	3.3
AF4PP	Chuck	0	0	6	0	0	6	2	3.0
KB7MBI	Alan	0	0	18	0	0	18	6	3.0
AA8IV	Rich	0	0	3	0	0	3	1	3.0
VE3SMA	Steve	0	24	0	0	0	24	9.1	2.6
WD9IFF	Woody	0	0	19	0	0	19	7.5	2.5
KB9LCK	Chris	0	4	13	0	0	17	7	2.4
N4SX	Randy	0	0	16	0	0	16	7	2.3
KT4A	Jim	0	4	8	6	0	18	8	2.3
N2CQ	Ken	0	24	39	0	0	63	30	2.1
W9XU	Lon	0	31	19	3	0	53	30	1.8
AA7QU	Russ	0	4	39	9	0	52	30	1.7
N5IW	Dave	0	8	42	2	0	52	30	1.7
VE3ELA	Ken	0	14	12	3	0	29	17	1.7
N9AW	Jerry	0	20	26	0	0	46	30	1.5
K8CV	Walt	0	32	6	8	0	46	30	1.5
AF5Z	Bob	0	9	22	5	0	36	30	1.2
W3BBO	Bob	2	12	16	4	0	34	30	1.1
K1CL	Chuck	0	8	24	0	0	32	30	1.1
AA7LE/M	Bary	0	0	4	0	0	4	4	1.0
AB5XQ	Bill	0	0	4	0	0	4	4.4	0.9
WA4DOU	Roy	0	0	19	6	0	25	30	0.8
KA8LLE	Ben	1	7	16	0	0	24	30	0.8
NK9G	Rick	0	13	9	0	0	22	30	0.7
AA8SN	Hope	2	12	7	1	0	22	30	0.7
K0CO	Jack	0	0	19	0	0	19	30	0.6
K6PZB	John	0	3	15	1	0	19	30	0.6
K8MEG	Rich	0	6	0	0	0	6	10	0.6
W0CH	David	0	0	16	0	0	16	30	0.5
KD4MSR	Scott	2	3	4	6	0	15	30	0.5
WA9TZE	Jim	0	8	7	0	0	15	30	0.5
W4NJK	Charlie	0	0	12	0	0	12	30	0.4
NR1C	Mike	0	8	2	0	0	10	30	0.3
WB0QQT	Steve	0	0	9	0	0	9	30	0.3

AL70K	John	0	0	3	1	0	4	30	0.1
WR6D	Bill	0	2	0	1	0	3	30	0.1
KI0KY	Steve	0	0	3	0	0	3	30	0.1

THE TUBBY DIVISION (Results sorted in order of points)

Call	Name	80m	40m	20m	15m	10m	Total Qs
N2CQ	Ken	0	24	39	0	0	63
W9XU	Lon	0	31	19	3	0	53
N5IW	Dave	0	8	42	2	0	52
AA7QU	Russ	0	4	39	9	0	52
K4ZM	Jim	0	5	45	0	0	50
W3DX	Rob	0	0	46	0	0	46
N9AW	Jerry	0	20	26	0	0	46
K8CV	Walt	0	32	6	8	0	46
K7RE	Brian	0	0	39	6	0	45
N6XI	Rick	0	8	32	5	0	45
K7TQ	Randy	0	0	40	0	0	40
AF5Z	Bob	0	9	22	5	0	36
W3BB0	Bob	2	12	16	4	0	34
K1QM	Joel	0	20	11	2	0	33
K1CL	Chuck	0	8	24	0	0	32
N7RVD	Brian	0	0	27	4	0	31
N4HAY	Dick	0	9	21	0	0	30
VE3ELA	Ken	0	14	12	3	0	29
W1PID	Jim	0	15	12	0	0	27
W7QQQ	Jack	0	0	25	0	0	25
WJ4P	Randy	0	2	23	0	0	25
NF9K	Joel	0	0	25	0	0	25
WA4DOU	Roy	0	0	19	6	0	25
VE3SMA	Steve	0	24	0	0	0	24
KA8LLE	Ben	1	7	16	0	0	24
K2UD	Howard	0	0	23	0	0	23
AA4XX	Paul	0	0	23	0	0	23
NK9G	Rick	0	13	9	0	0	22
AA8SN	Hope	2	12	7	1	0	22
N3AO	Carter	1	4	17	0	0	22
KH6B	Dean	0	0	15	6	0	21
AF4PS	Mac	0	0	20	0	0	20
K0CO	Jack	0	0	19	0	0	19
K6PZB	John	0	3	15	1	0	19
WD9IFF	Woody	0	0	19	0	0	19
W9QZ	Rick	0	0	19	0	0	19
KB7MBI	Alan	0	0	18	0	0	18
KT4A	Jim	0	4	8	6	0	18
KB9LCK	Chris	0	4	13	0	0	17

AB0GO	David	0	0	17	0	0	17
AE6N	Jim	0	0	17	0	0	17
N4SX	Randy	0	0	16	0	0	16
W0CH	David	0	0	16	0	0	16
KD4MSR	Scott	2	3	4	6	0	15
N0IBT	Dave	0	0	15	0	0	15
WA9TZE	Jim	0	8	7	0	0	15
K9YT	San	0	0	15	0	0	15
AA8PJ	Jeff	3	10	1	0	0	14
W4NJK	Charlie	0	0	12	0	0	12
K7UD	Dee	0	0	11	0	0	11
NR1C	Mike	0	8	2	0	0	10
WB0QQT	Steve	0	0	9	0	0	9
AF4PP	Chuck	0	0	6	0	0	6
K8MEG	Rich	0	6	0	0	0	6
WA4SQM	Ken	0	0	4	0	0	4
AL7OK	John	0	0	3	1	0	4
K04WX	Mike	0	0	4	0	0	4
AB5XQ	Bill	0	0	4	0	0	4
AA7LE/M	Bary	0	0	4	0	0	4
WR6D	Bill	0	2	0	1	0	3
AA8IV	Rich	0	0	3	0	0	3
KI0KY	Steve	0	0	3	0	0	3

Thanks for supporting The Adventure Radio Society!

Russ Carpenter, AA7QU
Contest Manager

Date: Thu, 6 Jul 2000 13:34:25 -0400
 From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
 To: QRP-L Discussion Group <QRP-L@Lehigh.edu>
 Cc: "W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>
 Subject: [74363] FOX tonight (reminder)
 Message-ID: <200007061337_MC2-AB50-BA00@compuserve.com>
 MIME-Version: 1.0
 Content-Transfer-Encoding: 7bit
 Content-Type: text/plain;
 charset=us-ascii
 Content-Disposition: inline

Gang:

Yet another reminder that the first Summer FOX hunt of the season is tonight, starting at 0100Z (which equates to 2000 CDT in the USA). K0EVZ will be on there for two hours.

I will be setting up somewhere between 14050-14070, per the rules. Might land directly on 14060. It will depend on conditions and QRM at the time. I may have to QSY during the hunt, but hopefully not. If I decide/need to QSY, I will try to say so to all the hunters, but sometimes this all gets covered up by the very QRM I am QSYing for. So if the hunt seems to die, you should go hunting for the new frequency.

EXCHANGE = RST + State or Province + first name + QRP-L number or power out. An example would be 569 ND Doc 861. I hope you will send your info in the same order, as it is very helpful. Note that I am essentially one-armed, and still log and operate manually. Works, but it takes time.

BTW, note the above number, 861. This is my QRP-L number, so record it somewhere for easy reference this evening. I may not be sending it every time.

I usually send the hunter's call at the beginning and ending of each QSO, but not always. It slows me down and cuts into the total number of pelts, but it helps everyone know who has been worked. Whatever you do, please don't ask for *my* call :-).

Here's wishing everyone the very best for this inaugural hunt. It is a new band and new contest, and we have slightly different rules, so who knows how it will go?! Let's hope it goes really well, and that the predicted severe thunderstorms either dissipate or go around us entirely here in ND.

72/73,

--W.D. (Doc) Lindsey

DSBF

PO Box 6028

Bismarck, ND 58506

(Shipping = DSBF, 2020 Lovett Ave, Bismarck, ND, 58504)

E-Mail = K0EVZ@arrl.net

Date: Thu, 6 Jul 2000 18:01:44 -0000

From: "Mark Hogan" <mhogan@email.msn.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [74364] I've forgotten

Message-ID: <008f01bfe774\$3fffb10\$9ee90181@cityweb.gov>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

how to suspend
sorry for the mail...
Hogan

Date: Thu, 6 Jul 2000 14:16:05 -0400
From: "David Maliniak" <dmaliniak@vertical.net>
To: <qrp-1@lehigh.edu>
Subject: [74365] Help with parts ID?
Message-ID: <002501bfe776\$416ec980\$0d01a8c0@vertical.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I've got a bunch of hamfest parts I can't identify. They're axial leaded devices that look like 1N4xxx rectifiers, which is what I *think* they are.

Parts markings are as follows:

P6KE6.8A
GI 9348

P6KE6.8A
GI 9428

P6KE6.8A
GI 341

P6KE7.5CA
GI 9408

Are these General Instruments house parts, perhaps?

If anyone can tell me what I've got, I'd be much obliged.

72,
David N2SMH
Glen Rock, NJ

Date: Thu, 6 Jul 2000 14:39:28 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <dmaliniak@vertical.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [74366] Re: Help with parts ID?
Message-ID: <005001bfe779\$894c47c0\$2101a8c0@insydesw.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hmm, if they LOOK like diodes, see if they ACT like diodes.

If they do, then hook them up to a variable through say a 50K resistor and see what the breakover point is.

Won't be all the info, but it may help to limit your search if you don't get any other responses.

Mike

----- Original Message -----

From: David Maliniak

> I've got a bunch of hamfest parts I can't identify. They're axial
leaded
> devices that look like 1N4xxx rectifiers, which is what I *think* they
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>

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>

> If anyone can tell me what I've got, I'd be much obliged.
>
> 72,
> David N2SMH
> Glen Rock, NJ

Date: Thu, 6 Jul 2000 11:50:37 -0700
From: Radman <radman@best.com>
To: "'David Maliniak'" <dmaliniak@vertical.net>, Low Power Amateur Radio
Discussion <qrp-l@Lehigh.EDU>
Subject: [74367] RE: Help with parts ID?
Message-ID: <01BFE740.6899DB20@radman.vip.best.com>

David,

The P6KE6's are probably from Fairchild Semiconductor. 600 Watt Transient
Voltage Suppressers. URL: <http://www.fairchildsemi.com/pf/P6/P6KE6.8A.html>
pdf data sheets are available at their site.

The P6KE7 is probably from Crydom. Check URL:
<http://info.digikey.com/MKT/NewQ001/Crydom/P6KEB.html>
They're 600watt bi-directional TVSs.

GL es 73,

Conrad Weiss - NN6CW

I've got a bunch of hamfest parts I can't identify. They're axial leaded
devices that look like 1N4xxx rectifiers, which is what I *think* they are.

Parts markings are as follows:

P6KE6.8A
GI 9348

///snip///

72,
David N2SMH
Glen Rock, NJ

Date: Thu, 6 Jul 2000 14:57:16 -0400
From: "David Maliniak" <dmaliniak@vertical.net>
To: <qrp-l@lehigh.edu>
Subject: [74368] Got my answer...
Message-ID: <002a01bfe77c\$0241f060\$0d01a8c0@vertical.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

My question on the mystery diode-lookalike parts has been answered. Mike Maiorana and Conrad Weiss both ID'd them as transient voltage suppressors. I also independently stumbled across the answer in the RS.com catalog.

Mike Yetsko also chimed in with a suggestion as to determine what they were.

What a group! Thanks, guys.

72,
David N2SMH
Glen Rock, NJ

Date: Thu, 6 Jul 2000 15:11:42 -0400 (EDT)
From: "Paul R. Valko" <prvalko@oakland.edu>
To: Mark Hogan <mhogan@email.msn.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74369] Infrequent Reminder: QRP-L Help Page
Message-ID: <Pine.OSF.4.21.0007061510190.8961-100000@saturn4.acs.oakland.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The QRP-L Help Page can be found here, among other places...

<http://www.oakland.edu/~prvalko/qrpplc.htm>

73! =paul= W8KC
Collector of Ten*Tecs and other fine plastics.
Visit the Virtual Ten*Tec Museum at:
<<http://www.acs.oakland.edu/~prvalko>>

Date: Thu, 06 Jul 2000 12:46:30 -0700
From: Jim/Julia <w7ls@blarg.net>
To: ka0gkc@arrl.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [74370] Re: Short antenna efficiency question
Message-ID: <3964E216.8E66FF74@blarg.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ah, yes! I agree. The radiation, due to current being low because it is near the end of the cycle, only radiates a little, but the next bounce off of the tuner, adds some more. Wait.....Gonna think about that some more. Ok, so a photograph of a single cycle of radiated power is really the composite of many, many round trips of many different cycles.

The practical outcome of that is more efficiency than we expected, provided that we keep the losses in feedlines and tuners to a minimum. Again, if we pour 100 watts into a system, we must get 100 watts out of the system, in a combination of heat and useful rf radiation. Minimize the heat and you have radiation. What's wrong with this picture <he says, rhetorically>? Jim W7LS

Cla KA0GKC wrote:

> Steve's reply was on the mark. However there is one thing that is often
> overlooked in these situations. Even if you use a tuner to "make the rig
> happy" the SWR is still there. But what does this mean? I've used this term
> before and I think it's a good description of what an antenna tuner really is,
> it's a "power re-reflector". When the SWR at the tuner is high, such as a 10
> foot whip on 80 meters as Jim W7LS described, a good portion of the power that
> goes up the feedline comes back. The antenna tuner, with it's reactive
> elements, absorbs and then returns this power back up the feedline and a good
> portion of it comes back again. Now there are losses in the tuner, balun if
> used, feedline and the antenna itself. This back and forth travel of the
> energy due to the SWR passes through these losses many times and adds up.
> There is the reason parallel line has coax beat in multiband non-resonant
> antennas, the loss in parallel line is many times less than coax and adds up
> to much less loss in these higher SWR situations.
>
> So if we take Jim W7LS's antenna and we use a very efficient tuner such as a
> balanced link coupler, parallel low loss feed line, make the 10 ft radiator
> out of large copper pipe to reduce the resistance, and provide a very very
> good ground we could actually have a very decent and effective antenna with
> quite acceptable efficiency.

>
> 73 de Cla KA0GKC

Date: Thu, 06 Jul 2000 14:55:38 -0500
From: Gary Lee Phillips KA9NZI <ka9nzi@arrl.net>
To: qrp-l@Lehigh.EDU
Subject: [74371] RE: End fire wire antenna ideas?
Message-ID: <3964E43A.6E4DFBC4@arrl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Just wanted to second Jay's suggestion. I can say from my own experience that this really does work. I have a single wire, end-fed, 130+ feet long. For higher bands this does qualify as a "long" wire. I plotted my contacts with this antenna on a great circle map and found that in as few as 100 QSOs, the pattern was evident. The main lobes form an acute angle with the axis of the wire, and the angle decreases as the frequency rises. Since you don't have a good earth ground available, some kind of counterpoise would be a possibility.

With the aid of friendly sunspots, I've worked Europe and Oceania regularly on this wire, generally using less than 10 watts CW or RTTY.

-- Gary Phillips, Marengo, IL <mailto:ka9nzi@arrl.net>
KA9NZI, Seneca Twp., McHenry Co., IL Grid: EN52rg
QRP-L #2124 <http://www.qsl.net/ka9nzi/>

Date: Thu, 6 Jul 2000 16:01:16 EDT
From: Qrpop@aol.com
To: qrp-l@lehigh.edu
Subject: [74372] ARK-4 XCVR +
Message-ID: <96.6d133d8.26963f8c@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

For Sale: S&S Engineering ARK4 transceiver, very nice condition, works great. Has built in keyer and audio filter. Original manual. Power cord Also included: 12v power pack (4ah battery, nylon case, with cig lighter outlet), headphones, antenna and a nylon case to hold the whole station in a nice compact package.

Asking \$155.

Please contact W2IV@arrl.net or call 716-649-6247.

tnx es 73 John W2IV

Date: Thu, 06 Jul 2000 14:03:30 -0600
From: carlos.caro@lmco.com
To: qrp-l@Lehigh.EDU, w7ls@blarg.net
Subject: [74373] RE: Short antenna efficiency question
Message-ID: <D0A28D7EFEB4D11181DE0000F80627BB023A476B@emss02m14.ems.lmco.com>
Content-return: allowed
MIME-version: 1.0
Content-type: text/plain
Content-transfer-encoding: 7BIT

> of heat and useful rf radiation. Minimize the heat and you have radiation.
> What's
> wrong with this picture <he says, rhetorically>? Jim W7LS
>

You will not have any barbecued worms available !!

Cheers,

Carlos #1333

Date: Thu, 6 Jul 2000 13:10:24 -0700 (PDT)
From: Richard Fisher <ki6sn@yahoo.com>
To: QRP-L Reflector <qrp-l@lehigh.edu>
Cc: KI6SN@yahoo.com
Subject: [74374] Now Showing: The ARS Sojourner
Message-ID: <20000706201024.29819.qmail@web216.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

The July edition of the Adventure Radio Society's monthly web magazine, The ARS Sojourner, is hot off the press and just a click away at:

<http://www.natworld.com/ars>

This issue is filled with a smorgasbord of articles ranging from practical outdoors news-to-use pieces to a technical review.

This month's index includes:

- + Safe Water in the Wilderness, by Bruce Grubbs, N7CEE.
- + In Review: The PK-3 Keyer from Jackson Harbor Press, by Cam Hartford, N6GA.
- + Memories of Memorial Day Weekend: Backpacking, Camping and Ham Radio at Weaver Lake, by Bill Jones, KD7S.
- + The Latest Flight of the Bumblebees roster, compiled by Russ Carpenter, AA7QU.
- + Results and soapbox comments from the July Spartan Sprint - with special attention to the efforts of W3DX, N2CQ and AA4XX, compiled by Russ Carpenter, AA7QU.
- + Who's Who And Who's New: New Members of the Adventure Radio Society, compiled by Richard Fisher, KI6SN.
- + From Our Vantage Point: An ARS editorial.
- + The ARS Wilderness Alert: Who's headed where, and when, compiled by Russ Carpenter, AA7QU.
- + Our Readers Write, featuring your letters.
- + A rundown of upcoming ARS events, and more.

On behalf of webmaster Russ Carpenter, AA7QU, and everyone who so generously contributed their time and talent, we hope you enjoy this month's edition of The ARS Sojourner. As always, your comments, criticisms and suggestions are welcomed.

Vy 72,

Richard Fisher, KI6SN
Executive editor, The ARS Sojourner
Riverside, CA
KI6SN@yahoo.com

Do You Yahoo!?

Send instant messages & get email alerts with Yahoo! Messenger.
<http://im.yahoo.com/>

Date: Thu, 6 Jul 2000 16:26:06 -0400

From: "Richard E. Robinson" <rerobins@email.uncc.edu>
To: qrp-l@lehigh.edu
Cc: klqrp@waterw.com
Subject: [74375] SMiTe Fox 7/9/00
Message-ID: <v03110703b58a9a793c67@[152.15.144.71]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I'll be the SMiTe Fox this Sunday evening, Monday UTC, beginning at 9:30PM EDT, 0130UTC on 3.686.4. I'm hoping we get better condx for this hunt than we have the past few weeks.

My QTH is Charlotte, NC, and I'll be looking for all you hungry hounds. I'll be using the K2's receiver and the SMiTe transmitter due to severe BCI on the SMiTe receiver from WBT-AM.

72,

Rick kf4ar

Date: Thu, 6 Jul 2000 16:33:03 EDT
From: ARDUJENSKI@aol.com
To: qrp-l@lehigh.edu
Subject: [74376] RELAYS??
Message-ID: <6f.744442d.269646ff@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

What kind of relays do folks use in antenna switching /phasing arrangements? I note that the Antenna Compendium Vol 2 (pg23) recommends a 24v-10amp (such as Potter Brumfield KUP11D15).

Can you use 12volt auto relays? Also are there ones that you use power to switch but power is not needed to keep it in position?

Alan D

Date: Thu, 6 Jul 2000 14:44:15 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: QRP-L List <qrp-l@lehigh.edu>
Subject: [74377] Baluns, the last word

Message-ID: <Pine.LNX.4.10.10007061405090.781-100000@cannac.ampr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have read and commented to several list members when they in error state that a wire balun wound on a core will not work well. I have already proven these wire balun are a balun with the 2 resistor test.

Today I thought up a simple test. I have 2 MFJ tuners, one is a model 941C and the other a 945B. They both have a 4:1 balun. I put RF power into tuner1. It leaves Tuner1 over 6 inches of 400 ohm wire to tuner2. Power leaves Tuner2 with 50 ohm coax to a dummy load.

I set the power out on 40 meters from my TS-140 to around 50 watts, which is 10 DB higher than we ever work at. Then I adjusted both tuners for maximum power delivered to the dummy load. Then I put a meter in the circuit between the radio and tuner1. It reads 62 watts. Then I put that same meter in the circuit between tuner2 and the dummy load. It reads 56 watts.

This shows by actual test that 2 4:1 balun as used in the MFJ tuners operating back-to-back each have about 5% power loss.

You can argue that it will be worse when the impedance into the balun is extreme. I will agree when the impedance is very low or very high the loss will increase. I have no idea how much. I measured my antenna and the impedance is nice on everything except 24 MHz where it gets very high.

So I state catagorically that the wire balun found in tuners and radios designed in the past 10 years will work very well with perfect balun balanced to unbalanced conversion and 5% power loss on the average.

The only coax balun that is a real balun is the one where you have a half wave loop of coax that hooks to the feed-line and gives a 4:1 impedance match and it's a great balun at one narrow band of frequencies. The other coax devices that have been talked of as being better than a wire and core balun are NOT BALUNS!

Those of you who do Hamfests should keep your eyes open for MFJ tuners. They are a little large for QRP but they match a wide range of impedance. I use one in my car as the impedance changer from the radio at 50 ohms to the Ham Stik at 3 ohms, all in 50 ohm coax.

The next guy who writes to this list saying the wire and core balun are no good and run hot, I'm going to just hit the D=delete key and say this proves the fact that most people don't let fact interfere with pre-conceived ideas...:-)

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Thu, 6 Jul 2000 16:55:52 -0400
From: "Mike Yettsko" <myetsko@insydesw.com>
To: <ARDUJENSKI@aol.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [74378] Re: RELAYS??
Message-ID: <025901bfe78c\$971f1ea0\$2101a8c0@insydesw.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

You can use almost any kind of relay. But be aware that most will NOT be set up for RF. However you can usually 'hack' one to make it work. Usually by cutting the feed wires to the contact off and attaching directly.

As to 'latching' relays, they come in all kinds of flavors, so you'll just have to look.

The kind that 'latch' and don't require a holding current are much harder to find. Not the kind you find on the wall at Radio Shack. But they really are out there. The K2 for example uses nothing BUT relays that set and then don't require power to hold.

Mike

> What kind of relays do folks use in antenna switching /phasing arrangements?
> I note that the Antenna Compendium Vol 2 (pg23) recommends a 24v-10amp (such
> as Potter Brumfield KUP11D15).
>
> Can you use 12volt auto relays? Also are there ones that you use power to
> switch but power is not needed to keep it in position?
>
> Alan D
>

Date: Thu, 6 Jul 2000 16:54:07 -0400
From: "Paul Christensen" <paulc@mediaone.net>
To: <k5di@zianet.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [74379] Re: Baluns, the last word
Message-ID: <01be01bfe78c\$54880020\$1c9c263f@paulc>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Karl,

>From my perspective, both ferrite core (toroid) and ferrite bead (sleeve) baluns are extremely useful for the application(s) in which they were interned to be used. For instance, I have found that both the W2DU and W2FMI baluns are exceptionally good broadband devices and maintain excellent balanced line current even in conditions of moderately high power and severe load mismatches. However, I will no longer place a balun on the output of a tuner when running QRO power. Instead, I use a 1:1 balun at the tuner's input, into a floating "T" network tuner. Either the W2DU or W2FMI is appropriate here, except...due to physical (not electrical) constraints, I prefer the use of the toroid (W2FMI) balun.

-Paul, W9AC

-----Original Message-----

From: Karl F. Larsen <k5di@zianet.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: Thursday, July 06, 2000 4:42 PM
Subject: Baluns, the last word

>
> I have read and commented to several list members when they in
>error state that a wire balun wound on a core will not work well. I have
>already proven these wire balun are a balun with the 2 resistor test.
>
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>model 941C and the other a 945B. They both have a 4:1 balun. I put RF
>power into tuner1. It leaves Tuner1 over 6 inches of 400 ohm wire to
>tuner2. Power leaves Tuner2 with 50 ohm coax to a dummy load.
>
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>watts, which is 10 DB higher than we ever work at. Then I adjusted both
>tuners for maximum power delivered to the dummy load. Then I put a meter in

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>that same meter in the circuit between tuner2 and the dummy load. It reads
>56 watts.

>

> This shows by actual test that 2 4:1 balun as used in the MFJ
>tuners operating back-to-back each have about 5% power loss.

>

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>balun is extreme. I will agree when the impedance is very low or very high
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>the impedance is nice on everything except 24 MHz where it gets very high.

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>a half wave loop of coax that hooks to the feed-line and gives a 4:1
>impedance match and it's a great balun at one narrow band of frequencies.
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>impedance. I use one in my car as the impedance changer from the radio at
>50 ohms to the Ham Stik at 3 ohms, all in 50 ohm coax.

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>balun are no good and run hot, I'm going to just hit the D=delete key and
>say this proves the fact that most people don't let fact interfere with
>pre-conceived ideas...:-)

>

>Yours Truly,

>

> - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

>

Date: Thu, 6 Jul 2000 13:52:49 -0700

From: "Coote, Jay" <JCoote@ci.arcadia.ca.us>

To: "'ARDUJENSKI@aol.com'" <ARDUJENSKI@aol.com>, Low Power Amateur Radio
Discussion <qrp-l@Lehigh.EDU>

Subject: [74380] RE: RELAYS??

Message-ID: <131CE266CAD0D211B3550008C7C9A2D51CBC2E@arcadia-pd1.arcadiapd.com>

MIME-Version: 1.0

Content-Type: text/plain

I'd be careful of lead length inside the relay and making sure the leads in the relay do not form (much of) an inductance. Relays with clear cases (surplus, RS, etc) are easy to examine. Use latching relays for when you do not want or need power to be on the coil at all times. You can use lower voltage relays. Relays and switches in antenna and tuner projects must handle RF voltages- especially if the antenna Z is variable or unknown. The contacts should also handle RF current... (ex: load is 50 ohms, 5 watts = how many amps?)

73

Jay

-----Original Message-----

From: ARDUJENSKI@aol.com [mailto:ARDUJENSKI@aol.com]

Sent: Thursday, July 06, 2000 1:33 PM

To: Low Power Amateur Radio Discussion

Subject: RELAYS??

What kind of relays do folks use in antenna switching /phasing arrangements?

I note that the Antenna Compendium Vol 2 (pg23) recommends a 24v-10amp (such as Potter Brumfield KUP11D15).

Can you use 12volt auto relays? Also are there ones that you use power to switch but power is not needed to keep it in position?

Alan D

Date: Thu, 6 Jul 2000 14:51:34 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: Qrp-l@lehigh.edu, Cqclist@cqc.org
Subject: [74381] FOX: Counting Down
Message-ID: <39649CF6.185.108206D@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Were a mere coupla hours away from the start of the QRP-L Summer Fox Hunt!.

Doc, K0EVZ, is first out of the den and we've all got our fingers crossed for some reasonable propagation.

Don't forget there are prizes for the top Foxes and Hounds, so hang in there and grab every pelt you can.

Full details, including rules, schedule, prizes, and some pictures of foxes are on the QRP-L Summer Fox Hunt page at <http://www.cqc.org/sfox> .

"We'll make you some sport with the fox ere we case him."
--Wm Shakespeare, A lls Well That Ends Well, Act III Scene 6

Good hunting!
Marshall Emm, N1FN
Milestone Technologies, Inc.
(303) 752-3382
<http://www.mtechnologies.com>

Date: Thu, 6 Jul 2000 15:14:38 -0600
From: "Dave Ek" <ekdave@earthlink.net>
To: <qrp-l@lehigh.edu>
Subject: [74382] AB0G0 backpack portable on 20m this wknd
Message-ID: <003d01bfe78f\$34da8920\$3f813389@ekdant>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gang,

I'll be backpacking in the Lost Creek Wilderness in Pike National Forest here in CO this weekend and will have a rig with me for 20m. If you're so inclined, listen for me Saturday and Sunday evening starting at around 1930 MDT (actual start time may vary depending upon other conditions--you know how it is when you're camping).

Equipment: Sierra & 20m module, coax-fed inverted Y antenna, small NiCd pack, Whiterook mini paddles.

Frequency: around 14.060 MHz (probably a bit above)

Procedure: none--er, the usual stuff. I call, you answer. Or vice versa--whatever. I'll probably call CQ for a bit. If I generate lots of interest (unlikely, but possible), I'll probably try to work everyone in the pile before I get into a ragchew, so if you hear a pileup and I come back to you, let's keep it short so I can get everyone.

Special note: I'll probably be hearing west coast stations pretty well with this setup, judging from the most recent spartan sprint. If you're on the

west coast and would be willing to pass a short message to my daughter at home via email, I'd like to try to set up a sked. Let me know if you're willing. This is not a critical activity for me, but I think my daughter would enjoy getting a message from her dad this way.

73 es hope to hear you this weekend -

Dave AB0GO

Date: Thu, 6 Jul 2000 17:12:09 -0400 (EDT)
From: James Skalski <jskalski@localnet.com>
To: qrp-l@Lehigh.EDU
Subject: [74383] Remote antenna relays ?
Message-ID: <Pine.LNX.4.20.0007061706560.888-1000000@valhalla.valhalla.buffalo.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Has anyone used miniature latching relays like those found in the recent ldg autotuner for remote antenna switching?
If so did you run separate wires to key the relay? Has anyone used the feedline to supply the triggering relay? I noticed that this is sometimes done with remotely switched vhf preamps and amps. I noticed it in a receiver down converter that I once assembled many years ago. I don't remember the details about what value of capacitor was used to keep the rf out of the relay circuit and power supply circuit.

73,

Jim n2go

Date: Thu, 6 Jul 2000 14:54:06 -0700 (PDT)
From: Monte Stark <ku7y@dri.edu>
To: ARDUJENSKI@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74384] Re: RELAYS??
Message-ID: <Pine.GS0.4.10.10007061453220.927-1000000@rotor.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Alan,

I always used 12 vdc auto horn relays for my 40m phased verticals.

cul,

73, Ron

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@qsl.net....SOC #2.....Nevada....NRA LIFE....
.....SOWP 5545M.....WHINERS #1.....ZOMBIE #18.....
....Visit my Home Page.....<http://www.qsl.net/ku7y/>....

Date: Thu, 06 Jul 2000 21:57:38 +0000
From: Michael Neverdosky <mneverdosky@earthlink.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74385] Looking for radar gun kit
Message-ID: <3964BA82.626127A@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Does anybody remember a radar gun kit that was in
the magazines a while back?
The one I am thinking of had a circuit board and
used a pair of coffee cans for the horn.

Thanks for any pointers.

michael N6CHV (in central FL)

Date: Thu, 6 Jul 2000 15:09:01 -0700 (PDT)
From: Monte Stark <ku7y@dri.edu>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74386] Re: RELAYS??
Message-ID: <Pine.GS0.4.10.10007061505010.927-1000000@rotor.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 6 Jul 2000, Monte Stark wrote:

>
> I always used 12 vdc auto horn relays for my 40m phased
> verticals.
>

I forgot to mention that I used both QRP and 100w in these arrays. I never had a relay give a problem.

Second point to think about when choosing a relay for antenna switching is this:

On 40m, one wave length is about 1,600 inches. If you have a wire going to the relay contact that is a inch or two, is it really going to matter?

There, now I feel better!

Back in my hole.....

73, Ron

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Date: Thu, 6 Jul 2000 15:23:36 -0700 (PDT)
From: Monte Stark <ku7y@dri.edu>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [74387] Re: Field Day rule adjustment proposal
Message-ID: <Pine.GSO.4.10.10007061514270.927-100000@rotor.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 6 Jul 2000, Bob Patten wrote:

> On Wed, 5 Jul 2000, Bill Stietenroth wrote:
> >
> > Have you gone bonkers?? What do you mean QRP is no challenge for field
> > day? To do any scoring at all the QRPers have to put up the best
> > antennas of all and work the hardest for each contact. Maybe you need to
> > try a QRP field day and see if it presents you a challenge. You know not
> > of what you speak.

Sorry I missed the original post but we have been having server

trouble and lots of email has been lost.

The original thought behind FD was NOT as contest, which is set up to give QRP a BIG advantage over the QRO stations.

Look at what Bob points out:

> If you treat FD as a contest (I certainly do and think Ron probably does
> also), it really is easy to outscore higher power stations by running
> QRP.

In looking at what FD really means, it to get set up to pass emergency traffic the best you can.

This means to put out a sig that others can hear well. QRO has the advantage. A few Db can and do make a big difference.

I understand where FD is now. What I'm saying is that maybe they need to rethink what the reason is behind it again.

I would just about bet a cup of coffee that when the 5:1 advantage was given for QRP, no one ever thought there would be that many QRP stations in there having fun nor did they realize what a BIG advantage that was.

And don't forget.....it's NOT a contest. :-)

(Haven't read the rules in a few years but I don't think you even need to send in any logs.....just your score. No need to worry about busted calls or exchanges!)

OK, back in my hole...

73, Ron

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Date: Thu, 6 Jul 2000 16:28:52 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: tom palmer <n1tp@worldnet.att.net>
Cc: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-1@LeHigh.EDU>
Subject: [74388] Re: Summer Fox Hunt Teams

Message-ID: <Pine.LNX.3.95.1000706162255.12418C-1000000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hello Tom....just came inside as another summer shower has started...so thought I'd check te e-mail while drying off....a Clean Sweep would be (1) all 5 members contacting the fox during a single hunt or (2) 4 members contacting the fox on the night that their 5th member is the fox.....Teams like the Raiders of the Lost RF only have 4 members so far so no Clean Sweep is possible until they have a 5th member.....

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - SOC #11 & #12 - Whiner#10 -
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

On Thu, 6 Jul 2000, tom palmer wrote:

> Hi, Bruce.
>
> In my humble opinion, 4 pelts from a team
> with only 4 members is not a "Sweep."
>
> It's 4 of 5.
>
> Only 5 of 5 is a Sweep.
>
> Tom, N1TP
>

Date: Thu, 6 Jul 2000 16:03:53 -0700
From: "K7FD" <cqdx@teleport.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [74389] How low can you go?
Message-ID: <000d01bfe79e\$7730d040\$a78c80a7@lincoln.k12.or.us>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Xmitting w/ QRP is tons of fun, no doubt about it. But another enjoyable pastime here is LISTENING for the lowest discernable signals on the band and giving them a call (first w/ qrp, then w/ qro if no luck). You'd be surprised how happy you can make that station who is running a droopy dipole or leaning vertical in the backyard (self-imposed QRP ERP?). I've been 'the first Oregon' for many a dx station this way.

When I hit the airwaves, my biggest smile comes from working a really weak one. I even like a lil' chirp and drift mixed in on those guys who might not have the latest and greatest technology in their hometowns.

Give your receiver a workout with 'QRP listening'. Try it, you'll like it!

72 John K7FD

Date: Thu, 6 Jul 2000 16:55:02 -0600
From: "Steve/n0tu" <n0tu@webaccess.net>
To: "QRP-L" <QRP-L@lehigh.edu>
Subject: [74390] TRADE: Jones Paddle for DSW20?
Message-ID: <005201bfe79d\$61a8d700\$5448460f@snp.webaccess.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hey Gang,

I have a Jones keyer paddle that I want to trade for a DSW20 w/case (built or unbuilt).

The paddle is almost collector quality. Just a few VERY minor smudges on it's red base. And one of the adjustment screws appears to be a little off center(wobbles slightly when you turn it) but the paddle functions as per spec.

I have some JPG/pictures - so if you are interested I can send to you upon request.

Steve/n0tu

End of QRP-L Digest 1874

